



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO
GOVERNOR
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SECRETARY

CERTIFIED MAIL No.:

Mr. Russ Willmon, General Manager
Environmental Services Department
CITGO Petroleum Corporation
P. O. Box 1562
Lake Charles, LA 70602

AI No. 1250
PER20050022

RE: Operating permit modification, CAT Area, Lake Charles Refinery, CITGO Petroleum Corporation, Sulphur, Calcasieu Parish, Louisiana

Dear Mr. Willmon:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 28th of April, 2010, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

Permit No.: 2908-V1

Sincerely,

Chuck Carr Brown, Ph. D.
Assistant Secretary
CCB/mv
cc: EPA Region VI

ENVIRONMENTAL SERVICES
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AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

CAT AREA; AI No. 1250; PER20050022
CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

I. Background

CITGO Petroleum Corporation operates a petroleum refinery in Lake Charles, Louisiana. The Lake Charles Manufacturing Complex (LCMC) processes both domestic and foreign crude oils into sulfuric acid, benzene, propane, ethane, sulfur, gasoline, distillate and residual oil, propylene, coke, lube oils and other miscellaneous products. The CAT Area includes the Fluidized Catalytic Cracking Units, the Hydrotreating Units, the Fuel Gas Processing Unit, the Propylene Fractionation Unit, and the C4 Recovery Unit. Currently the facility operates under Permit 2908-V0 dated April 28, 2005. This permit includes the Cat Gasoline Hydrotreaters Unit permitted under Permit 2810-V1 dated May 4, 2005. Due to the Permit No. 2810-V1 under renewal status, public notice is required for this consolidated permit.

II. Origin

The Department originated a permit modification to incorporate stack testing requirements on two (2) furnaces and consolidate this permit with the Cat Gasoline Hydrotreaters Unit, Permit 2810-V1. A permit application and Emission Inventory Questionnaire (EIQ) dated February 23, 2006 were received requesting a Part 70 operating permit modification.

III. Description

The CAT Area includes the Fluidized Catalytic Cracking Units, two (2) Hydrotreating Units, the C4 Recovery Unit, the Propylene Fractionation Unit, and the Fuel Gas Processing Unit. The Cat Gasoline Hydrotreaters Unit (CGH) consists of two (2) units.

The Fluidized Catalytic Cracking Units

The Fluidized Catalytic Cracking Units consist of the A, B and C Units. The Fluidized Catalytic Cracking Units (FCCU) convert the heavy distillate gas oils and heavier cuts into higher grade, more valuable lighter fractions. The FCC Units provide a significant portion of the gasoline produced in the gasoline pool.

The FCC Units are located downstream of the Cat Feed Hydrotreater, the atmospheric and vacuum distillation towers and the coking units. Thus, the feedstocks that are available to the FCC are feeds from these units. The primary liquid products produced in the FCC Unit are:

- Liquefied Petroleum Gases (LPG)
- C3, C4, and C5 Olefins
- Gasoline Distillate
- Light and Heavy Cycle Oil
- Decant oil

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These products are then sent downstream for further processing and separation at the C4 Gas Recovery Plant, FCC Gasoline Hydrotreater(s), the Hydrotreater for No. 2 Fuel Oil or for feed to the Unicracker.

The unit conversion is dependent on the type of feed and catalyst life. When a unit is down or on turnaround; the other two units are operated to compensate for the down unit. Catalyst type and formulation will change depending on refinery objectives and economics provided that the units operate within the permitted emission limits.

The FCC Unit consists of three (3) major sections: a) Reactor, b) Fractionation, and c) Regenerator Flue Gas Handling.

Reactor

The feed is preheated through a heat exchange network and preheat furnace and contacted with a stream of hot circulating catalyst, which completely vaporizes the feed. The mixture is separated into the catalyst and cracked hydrocarbons by the use of cyclones and steam. The vapor stream is quenched to minimize over-cracking.

Fractionation

The reactor effluent is fed into the base of the fractionator. With heat removal at various stages, the vapors are condensed and fractionated into product streams. The overhead cut consists of gasoline distillate and lighter ends and is sent to C4 Recovery for further separation. The two side-cut streams are light cycle oil (LCO) and heavy cycle oil (HCO).

Both LCO and HCO may be hydrotreated for use as feedstock to other Hydroprocessing Units, or LCO may be yielded as product. The precise gasoline endpoint and boiling range of the naphtha and light and heavy cycle oils, is controlled to comply with the current product specifications. The bottom cut yields decant oil.

Also, Refinery slop oil is sometimes routed to the fractionator. The slop oil is fractionated into the proper cuts.

Stripping steam is used in the light gas oil stripper, the heavy gas oil stripper, and fractionator base.

Regenerator – Flue Gas Handling

The cracking reaction deposits coke on the catalyst. The deposits reduce the active surface area of the catalyst. Thus, it is necessary to regenerate the catalyst to restore its activity.

There are blowers which operate in parallel to supply air for the combustion of coke. These machines have sufficient capacity to permit operation of the units at reduced coke burning rate in the case of one of the blowers being out of service.

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Most of the heat released by coke combustion is absorbed by the catalyst for transfer to the reactor.

The vapors leaving the regenerator, consisting of flue gas, air, and steam flow through cyclone separators and out of the vessel. The rising stream of gas will contain a small amount of entrained catalyst. As the gases flow through the cyclones, the major portion of the catalyst is removed from the gases. The hot gases leaving the regenerator flow through the flue gas coolers before being routed into the wet gas scrubbers.

The Wet Gas Scrubbers will reduce emissions of sulfur oxides, sulfuric acid and particulate matter before venting the flue gas to the atmosphere.

Separate drums are provided for the storage of fresh and used catalyst. Air from the blowers is used to transfer fresh or used catalyst from the drums to the unit. Makeup catalyst from the fresh catalyst drum is discharged into the regenerator by either plant air or aeration air. The catalyst dropout system is piped to empty the operating vessels into the used catalyst storage drum.

Cat Feed Hydrotreater Unit

The Hydrotreating Units are the Cat Feed Hydrotreater and the B-Light Cycle Oil Hydrotreater Units. The Cat Feed Hydrotreater (CFH) produces relatively high quality diesel fuel for sales. The CFH diesel meets Ultra-Low Sulfur Diesel (ULSD) specifications. To achieve this, the CFH removes metals, saturates bonds, and removes sulfur and other contaminants from the heavy oil feeds. The unit charge typically includes distillate gas oils from the CVEP, Coker I and II Units A, B, C Toppers and A, B, C FCC units. The unit also receives purchased makeup hydrogen. The hydro-treated product goes to the finished ULSD storage tanks.

Feed and Reactor

Entering the unit from storage, the gas oil feeds are heated via feed/effluent heat exchangers and mixed with makeup and recycle hydrogen from the furnace. After that, the oil is sent through the guard bed and the main reactor to remove contaminants from the reactor feed stream that could poison the catalyst. After exiting the guard bed, reactor and effluent exchanger train, the stream is sent to the separators.

Separators

After leaving the reactor, the effluent is cooled and it goes through a separation process. The material is separated and returned to the process or to the Fuel Gas Processing Unit (FGPU). The condensed water is drawn and sent to the sour water flash drum. The flash drum overhead is sent to FGPU and the liquid is routed to the sour water strippers.

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Amine Treating

The purpose of the amine treating section is to remove H₂S and CO₂ from the recycle gas stream. The lean amine from central amine is cooled and filtered for particulate removal. In the amine contactor, recycle gas enters via the bottom and flows upward, counter-currently to the downward flowing amine. The rich amine exiting from the bottom of the contactor is flashed to remove any remaining hydrocarbon vapors and then sent back to central amine for acid gas stripping. The sweetened recycle gas from the top of the drum is sent to the recycle gas compressor.

Recycle Gas System

The hydrogen-rich stream is sent to the recycle gas compressor. The compressor discharge is divided into two streams. One stream is sent to the reactors to provide a quench. The other stream is mixed with the purchased makeup hydrogen stream. The make-up stream replaces the hydrogen that was consumed in the reactors. This make-up stream is compressed prior to being sent to the recycle stream. The combined stream is then heated by the furnace and sent to the front end of the unit to be combined with the gas oil feed.

Main Fractionator

The fractionator feed comes from the separators. The tower overhead is partially condensed and sent to the overhead accumulator. The vapor from this drum is compressed and sent to the FGPU. After the compressor stages, there is an interstage knock out drum, which removes hydrocarbon liquids and returns them to the naphtha product stream that leaves the unit for Feed Prep. Steam is used to strip hydrogen sulfide from the feed. The steam enters the fractionator at the bottom and through the diesel stripper. The steam is condensed into sour water in the overhead exchangers and separates in the overhead receiver. The sour water from the process is sent to the sour water flash drum.

The stripper bottoms are sent to product storage and sent on to either the cats as feed or to the FCCU storage tanks.

B-Light Cycle Oil Hydrotreater (BLCOH) Unit

BLCOH is a Hydrotreating Unit that can treat various cycle and blend oils. BLCOH can also operate as a Naphtha Hydrotreating Unit depending on refinery needs.

First, the hydrogen and feed are mixed and sent to a three-bed reactor. Additional quench hydrogen is added as required between the reactor beds.

Reacted feed is cooled in the feed-effluent and condensate is injected in the feed effluent to wash out any soluble salts. This sour water is removed and sent to the Sour Water Recovery Unit.

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Hydrogen rich gas is mainly recycled, but some material is purged to fuel.

Liquid from the low-pressure separator is sent to the E-101 Stripper. The E-101 overhead gas is compressed in the JC-103A & B compressors and either recycled to the tower for pressure control or sent to amine treating and then to fuel. The overhead liquid is sent to the C4 Recovery F-11 drum for light ends fractionation. The stabilized product is sent to the clay filters at the Treating Plant and then on to turbine fuel storage tanks.

C-4 Recovery Unit

The main function of the C4 Gas Recovery Unit is to extract the valuable liquid components (C_3 , C_4 , C_5 , and C_6+) from the various off gas streams generated by upstream units. The C4 Recovery is located downstream of the catalytic cracking units. The system is mainly composed of absorption and fractionation towers. The primary unit feeds are the FCC wet gas (C_3 and heavier components), cat gasoline, Coker tail gas, and Purge Treatment Unit (PFU) vent gas. Topper tail gas, Reformer Condensate and Straight Run gas can also be sent to C4 Recovery.

The gas streams entering the unit from the cats, Coker, and PFU are cooled, compressed, and condensed. The gas stream comes in contact with a cat gasoline stream, which begins the process of absorbing C_3 's and heavier components from the gas stream into the gasoline. The stream then goes to the bottom of the absorber tower.

The FCCU distillate entering the unit is chilled by ammonia refrigerant and the chilled product is pumped to the top of the absorber tower.

The absorber tower is designed to remove C_3 and heavier material from the gas stream. A major portion of the C_3 - and heavier components is absorbed from the gas stream into the product stream. The stripped gas is routed to fuel, while the bottom product stream is sent to the de-ethanizer tower.

The de-ethanizer tower is designed to remove C_2 's and lighter material from the product. The feed stream is split in two. One is sent to the tower as cold feed and the other is sent to the tower as hot feed. The bottoms from the de-ethanizer tower are sent to the de-butanizer tower.

The de-butane tower is designed to remove C_4 and lighter material from the gasoline. The bottoms are sent as feed to the de-pentanizer tower. The overhead vapors are partially condensed and sent to a reflux drum. The vapor from the reflux drum is recycled back to the process. The liquid from the reflux drum is split into two streams. One stream is pumped back to the tower, while the other is pumped to the de-propanizer tower as feed.

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The de-pentanizer tower separates the feed into a C₅ stream and a cat gasoline stream. The overhead from the tower is sent to a reflux drum. The liquid from the reflux drum is split into two flows. One flow is returned to the tower as reflux. The other stream is sent to the caustic treaters at the treating plant, and used as feed. The bottoms stream from the tower is sent as cat gasoline to the treating plant and the FCC Gasoline Hydrotreater before being routed to the gasoline blending.

The de-propanizer tower splits the feed into a C₃ mix stream and a C₄ stream. The overhead from the tower is condensed and collected in a reflux drum. Part of the liquid stream from this drum is sent back to the tower as reflux. The rest of the liquid is sent as C₃ mix to the Girbotol for amine treating and then to the PFU de-ethanizer, which removes light ends from the C₃ mix product stream. The bottoms stream from the tower are cooled and sent to the treating plant as feed.

The distillate splitter tower removes the light ends from the coker naphtha feed, and then the distillate is sent to the C-reformer. The overhead from the tower is condensed and sent to a reflux drum. Part of the liquid from the reflux drum is pumped back to the tower as reflux. The rest of the liquid is sent to the E-10, de-butanizer tower as feed. The bottoms stream from the tower, which is heavy coker naphtha, is sent to the C-reformer.

Propylene Fractionation Unit (PFU)

The C₃ mix feed to PFU is typically sold via pipeline. Some, however, is exported via ships and barges. The surplus mix is stored in a salt dome for later use to the refinery as feed or sold as product.

The C₃ mix feed stream is caustic washed to remove acid gases, then water washed to remove caustic. It is then fed to a de-ethanizer tower to remove C₂'s and lighter, which are returned to C₄ Recovery. The de-ethanizer bottoms, PFU product is then sent to tankage consisting of 3 spheres and 7 bullets tanks for storage.

Fuel Gas Processing Unit (FGPU)

The FGPU is composed of two (2) units.

- FGPU-Fuel Gas Processing Unit
- LERU-Light Ends Recovery Unit

These two units operate similarly and are discussed together.

Typically, sulfur in hydrocarbon fractions is present as hydrogen sulfide (H₂S) and mercaptans. These sulfur compounds are present in the off-gas produced from several refinery units. Environmental regulations require removal of H₂S from the refinery fuel

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supply-to-comply-with-the-Clean-Air-Act. Mainly, the C4-Gas-Recovery-Unit-absorbs the gases produced at the various units including the hydrocarbons heavier than ethane. The ethane and lighter gases are sent to the refinery fuel stream which requires removal of H₂S. The H₂S in the sulfur rich stream not only is a pollutant when included in the fuel system but is also corrosive in the process heaters.

To remove the H₂S from the refinery gases, the sour fuel gas (containing H₂S) is contacted with an amine solution. This solution is used to absorb the H₂S from the fuel gas stream.

Next, the gas is routed through a low pressure knock out drum to prevent any liquid amine carry over. Finally, the gas is routed into the fuel system.

The rich amine solution is sent to the stripping tower at central Amine where the H₂S is removed. The lean amine (free of H₂S) is recycled back to the FGPU.

When the FGPU is taken out of service, it is spared with the LERU and Benzene-Amine. Consequently, the LERU is spared using the FGPU and Benzene-Amine.

Cat Gasoline Hydrotreater

CITGO produces a full boiling range Fluid Catalytic Cracking Gasoline stream, which is treated to reduce the sulfur content by approximately 92%.

The CGH consists of four (4) steps: feed preparation, reaction, hydrogen recycle and stabilizing. During feed preparation the gasoline feed is mixed with fresh and recycled hydrogen and preheated to reaction temperatures. The material undergoes desulfurization during the reaction process. The hydrogen is recycled back to the process by the recycle gas compressor for reuse. The stabilizing process receives the condensable material from the reaction process, which is sent to the product stripper for further processing. The stripper bottoms are then sent to intermediate storage before blending with the motor gasoline pool.

There are two (2) furnaces and one (1) reboilers associated with each CGH unit. The furnaces and reboilers are organized into an emission cap.

This permit:

- Incorporates the CGH units permitted under Permit 2810-V1;
- Reconciles all wet gas scrubber air emission sources to reflect Continuous Emissions Monitoring Data and stack test data;
- Incorporates requirements of the NSR Consent Decree to which CITGO LCMC became subject on January 27, 2005, for the Sulfur Dioxide emissions from the wet gas scrubbers;
- Removes a cap on the Hoppers with no emission changes;
- Adds three (3) new GC XVII activities;

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- Removes the flare that is shared by both CGH units and serves as backup to the Conversion Optimization unit and Cat Feed Hydrotreater. Emission Source 3(XXXIV)10 B-104 Flare is permitted in Permit 3010-V0 (Site Services Area);
- Consolidates the fugitive emissions. Emission Source 3(XXXIV)17 CGH and Emission Source 3(MISC)2 Cat Area Fugitives; and
- Removes tank 70 which is included in Permit 2796-V4 (Logistics Area) as Tank 42.

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	483.25	482.05	-1.20
SO ₂	4549.13	426.68	-4122.45
NO _x	1586.91	3331.61	+1744.70*
CO	630.12	616.81	-13.31
VOC**	795.26	803.41	+8.15

*NO_x emission increase comes from Continuous Emissions Monitoring (CEM) Data.

In Permit 2908-V0, the NO_x emissions for the FCCUs were calculated using a 2002 Stack test which correlated nitrogen content of feed to NO_x emissions measured out of the stack. The correlation indicated 10.16% of the nitrogen in the feed was emitted out the stack as NO_x. Later the facility has installed NO_x CEMS on each of the FCCU stacks. This permit modification reflects the CEMS data being collected and revises the method of emission estimation to reflect actual emission rates. The CEMS is a more accurate measurement along with the stack gas flow to determine a more accurate emissions of NO_x.

****VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs): TPY**

Pollutant	Before	After	Change
1,3-Butadiene	0.27	0.27	-
2,2,4-Trimethylpentane	0.13	0.12	-0.01
Benzene	5.69	6.13	+0.44
Cumene	0.16	0.16	-
Ethylbenzene	3.31	3.51	+0.20
n-Hexane	3.36	3.38	+0.02
Naphthalene	1.84	2.75	+0.91
Phenol	0.002	0.002	-
Polyaromatic Hydrocarbons	0.76	0.76	-
Toluene	11.74	12.69	+0.95
Xylenes	20.06	21.63	+1.57
Total VOTAP	47.32	51.40	+4.08

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Non-VOC TAPs: TPY	Before	After	Change
Total Hydrogen Sulfide	14.29	23.86	+9.57
Total Non-VOC TAPs	14.29	23.86	+9.57
Other TAPs: TPY	Before	After	Change
Total Ammonia	16.14	45.21	+29.07
Total Antimony	0.02	0.02	—
Total Chlorine	0.09	0.09	—
Total Copper	0.02	0.02	—
Total Lead	0.03	0.03	—
Total Nickel	0.33	0.34	+0.01
Total Sulfuric Acid	204.23	204.23	—
Total Zinc	0.13	0.13	—
Total Other TAPs	220.99	250.06	+29.08

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and NESHAP. Prevention of Significant Deterioration, (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in the *Advocate*, Baton Rouge, Louisiana, on XXX XX, 2006 and *The Southwest Daily News*. The public notice was sent to persons included in the Office of Environmental Services Public Notice

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Mailing List on XXX-XX, 2006. The proposed permit was also submitted to US EPA Region VI.

VII. Effects on Ambient Air

Dispersion Model(s) Used: ISCST (Screen)*

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
NO _x	Annual	16.18*	(100)
SO ₂	3-hour	15.77	(1300)
SO ₂	24-hour	4.83	(365)
SO ₂	Annual	0.19	(80)

VIII. General Condition XVII

Unit: A CAT		TPY				
		CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 1	Carbon canister changeouts	-	-	-	-	0.1
GCXVII No. 2	Changing filters/pump screens	-	-	-	-	0.1
GCXVII No. 3	Cleaning equipment	-	-	-	-	0.1
GCXVII No. 4	Cleaning of pipelines	-	-	-	-	0.1
GCXVII No. 5	Compressor maintenance	-	-	-	-	0.1
GCXVII No. 6	Control device releases, maintenance	-	-	-	-	0.1
GCXVII No. 7	F-16 & B-4 Blowdown stack	-	-	-	-	0.6
GCXVII No. 8	Isolation & control valve maintenance	-	-	-	-	0.1
GCXVII No. 9	Draining compressor bottles	-	-	-	-	0.1
GCXVII No. 10	Instrument maintenance	-	-	-	-	0.1
GCXVII No. 11	Liquid de-inventory to sewer	-	-	-	-	0.2
GCXVII No. 12	Miscellaneous equipment preparation	-	-	-	-	0.2
GCXVII No. 13	Nitrogen blowing of pipelines	-	-	-	-	0.1
GCXVII No. 14	Opening off-line equipment	-	-	-	-	0.4
GCXVII No. 15	Pump maintenance	-	-	-	-	0.1
GCXVII No. 16	Purging off-spec material to flares	-	-	-	-	0.2
GCXVII No. 17	Sampling (incl. corrosion coupons)	-	-	-	-	0.1
GCXVII No. 18	Solids removal	-	-	-	-	1.2
GCXVII No. 19	Solids removal from sumps	-	-	-	-	0.1
GCXVII No. 20	Vessel preparation	-	-	-	-	0.1
GCXVII No. 21	Exchanger maintenance	-	-	-	-	0.1
GCXVII No. 22	Depressure unit to flare	-	-	-	-	1.3
GCXVII No. 23	Solids loading and unloading	-	-	-	-	2.6
GCXVII No. 24	Draining liquid from bleeders	-	-	-	-	0.1
GCXVII No. 25	B-1 auxiliary heater ¹	0.8	0.5	0.1	0.3	0.1
GCXVII No. 26	Venting F-2A Catalyst hopper	-	-	4.6	-	-
GCXVII No. 27	Venting F-2B Catalyst hopper	-	-	1.9	-	-
GCXVII No. 28	A CAT Dust From Refractory Curing	-	-	0.57	-	-

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Unit: A CAT	TPY				
	CO	NO _x	PM ₁₀	SO ₂	VOC

¹this source can emit via the scrubber stack.

During FCC startups, CITGO will consume torch oil as required to heat up the regenerator.

Unit: B CAT	TPY				
	CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 1	Carbon canister changeouts	-	-	-	0.1
GCXVII No. 2	Changing filters/pump screens	-	-	-	0.1
GCXVII No. 3	Cleaning equipment	-	-	-	0.1
GCXVII No. 4	Cleaning of pipelines	-	-	-	0.1
GCXVII No. 5	Compressor maintenance	-	-	-	0.1
GCXVII No. 6	Control device releases, maintenance	-	-	-	0.1
GCXVII No. 7	F-16 & B-4 Blowdown stack	-	-	-	0.6
GCXVII No. 8	Isolation & control valve maintenance	-	-	-	0.1
GCXVII No. 9	Draining compressor bottles	-	-	-	0.1
GCXVII No. 10	Instrument maintenance	-	-	-	0.1
GCXVII No. 11	Liquid de-inventory to sewer	-	-	-	0.2
GCXVII No. 12	Miscellaneous equipment preparation	-	-	-	0.2
GCXVII No. 13	Nitrogen blowing of pipelines	-	-	-	0.1
GCXVII No. 14	Opening off-line equipment	-	-	-	0.4
GCXVII No. 15	Pump maintenance	-	-	-	0.1
GCXVII No. 16	Purging off-spec material to flares	-	-	-	0.2
GCXVII No. 17	Sampling (incl. corrosion coupons)	-	-	-	0.1
GCXVII No. 18	Solids removal	-	-	-	1.2
GCXVII No. 19	Solids removal from sumps	-	-	-	0.1
GCXVII No. 20	Vessel preparation	-	-	-	0.1
GCXVII No. 21	Exchanger maintenance	-	-	-	0.1
GCXVII No. 22	Depressure unit to flare	-	-	-	1.3
GCXVII No. 23	Solids loading and unloading	-	-	-	2.6
GCXVII No. 24	Draining liquid from bleeders	-	-	-	0.1
GCXVII No. 25	B-1 auxiliary heater ¹	0.8	0.5	0.1	0.3
GCXVII No. 26	Venting F-2A Catalyst hopper	-	-	4.6	-
GCXVII No. 27	Venting F-2B Catalyst hopper	-	-	1.9	-
GCXVII No. 28	B CAT Dust From Refractory Curing	-	-	0.57	-

¹this source can emit via the scrubber stack.

During FCC startups, CITGO will consume torch oil as required to heat up the regenerator.

Unit: C CAT	TPY				
	CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 1	Carbon canister changeouts	-	-	-	0.1
GCXVII No. 2	Changing filters/pump screens	-	-	-	0.1
GCXVII No. 3	Cleaning equipment	-	-	-	0.1
GCXVII No. 4	Cleaning of pipelines	-	-	-	0.1
GCXVII No. 5	Compressor maintenance	-	-	-	0.1
GCXVII No. 6	Control device releases, maintenance	-	-	-	0.1

AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

CAT AREA; AI No. 1250; PER20050022
CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

Unit: C CAT		TPY				
		CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 7	F-16 & B-4 Blowdown stack	-	-	-	-	0.6
GCXVII No. 8	Isolation & control valve maintenance	-	-	-	-	0.1
GCXVII No. 9	Draining compressor bottles	-	-	-	-	0.1
GCXVII No. 10	Instrument maintenance	-	-	-	-	0.1
GCXVII No. 11	Liquid de-inventory to sewer	-	-	-	-	0.2
GCXVII No. 12	Miscellaneous equipment preparation	-	-	-	-	0.2
GCXVII No. 13	Nitrogen blowing of pipelines	-	-	-	-	0.1
GCXVII No. 14	Opening off-line equipment	-	-	-	-	0.4
GCXVII No. 15	Pump maintenance	-	-	-	-	0.1
GCXVII No. 16	Purging off-spec material to flares	-	-	-	-	0.2
GCXVII No. 17	Sampling (incl. corrosion coupons)	-	-	-	-	0.1
GCXVII No. 18	Solids removal	-	-	-	-	1.2
GCXVII No. 19	Solids removal from sumps	-	-	-	-	0.1
GCXVII No. 20	Vessel preparation	-	-	-	-	0.1
GCXVII No. 21	Exchanger maintenance	-	-	-	-	0.1
GCXVII No. 22	Depressure unit to flare	-	-	-	-	1.3
GCXVII No. 23	Solids loading and unloading	-	-	-	-	2.6
GCXVII No. 24	Draining liquid from bleeders	-	-	-	-	0.1
GCXVII No. 25	B-1 auxiliary heater ¹	0.8	0.5	0.1	0.3	0.1
GCXVII No. 26	Venting F-2A Catalyst hopper	-	-	4.6	-	-
GCXVII No. 27	Venting F-2B Catalyst hopper	-	-	1.9	-	-
GCXVII No. 28	C CAT Dust From Refractory Curing	-	-	0.57	-	-

¹this source can emit via the scrubber stack.

During FCC startups, CITGO will consume torch oil as required to heat up the regenerator.

Unit: CFH (Cat Feed Hydrotreater)		TPY				
		CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 1	Carbon canister changeouts	-	-	-	-	0.1
GCXVII No. 2	Changing filters/pump screens	-	-	-	-	0.1
GCXVII No. 3	Cleaning equipment	-	-	-	-	0.1
GCXVII No. 4	Cleaning of pipelines	-	-	-	-	3.7
GCXVII No. 5	Compressor maintenance	-	-	-	-	0.4
GCXVII No. 6	Control device releases, maintenance	-	-	-	-	0.3
GCXVII No. 7	Isolation & control valve maintenance	-	-	-	-	0.8
GCXVII No. 8	Draining compressor bottles	-	-	-	-	0.6
GCXVII No. 9	Instrument maintenance	-	-	-	-	0.7
GCXVII No. 10	Liquid de-inventory to sewer	-	-	-	-	3.5
GCXVII No. 11	Miscellaneous equipment preparation	-	-	-	-	3.9
GCXVII No. 12	Nitrogen blowing of pipelines	-	-	-	-	4.7
GCXVII No. 13	Opening off-line equipment	-	-	-	-	4.3
GCXVII No. 14	Pump maintenance	-	-	-	-	2.3
GCXVII No. 15	Purging off-spec material to flares	-	-	-	-	3.3
GCXVII No. 16	Sampling (incl. corrosion coupons)	-	-	-	-	1.6
GCXVII No. 17	Solids removal	-	-	-	-	4.9
GCXVII No. 18	Solids removal from sumps	-	-	-	-	1.5
GCXVII No. 19	Vessel preparation	-	-	-	-	3.2

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CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

Unit: PFU

		TPY				
		CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 10	Liquid de-inventory to sewer	—	—	—	—	3.5
GCXVII No. 11	Miscellaneous equipment preparation	—	—	—	—	3.9
GCXVII No. 12	Nitrogen blowing of pipelines	—	+	—	—	1.9
GCXVII No. 13	Opening off-line equipment	—	—	—	—	4.8
GCXVII No. 14	Pump maintenance	—	—	—	—	3.5
GCXVII No. 15	Purging off-spec material to flares	—	—	—	—	3.3
GCXVII No. 16	Sampling (incl. corrosion coupons)	—	—	—	—	0.8
GCXVII No. 17	Solids removal	—	—	—	—	2.6
GCXVII No. 18	Solids removal from sumps	—	+	—	—	0.5
GCXVII No. 19	Vessel preparation	—	—	—	—	1.6
GCXVII No. 20	Exchanger maintenance	—	—	—	—	1.5
GCXVII No. 21	Depressure unit to flare	—	—	—	—	2.7
GCXVII No. 22	Draining liquid from bleeders	—	+	—	—	0.1

Unit: C4 Recovery

		TPY					
		CO	NO _x	PM ₁₀	SO ₂	VOC	NH ₃
GCXVII No. 1	Carbon canister changeouts	—	—	—	—	0.1	—
GCXVII No. 2	Changing filters/pump screens	—	—	—	—	0.1	—
GCXVII No. 3	Cleaning equipment	—	+	—	—	0.1	—
GCXVII No. 4	Cleaning of pipelines	—	—	—	—	4.8	—
GCXVII No. 5	Compressor maintenance	—	—	—	—	0.9	—
GCXVII No. 6	Control device releases, maintenance	—	—	—	—	0.3	—
GCXVII No. 7	Isolation & control valve maintenance	—	—	—	—	0.4	—
GCXVII No. 8	Draining compressor bottles	—	+	—	—	0.6	—
GCXVII No. 9	Instrument maintenance	—	—	—	—	0.4	—
GCXVII No. 10	Liquid de-inventory to sewer	—	—	—	—	3.5	—
GCXVII No. 11	Miscellaneous equipment preparation	—	—	—	—	3.9	—
GCXVII No. 12	Nitrogen blowing of pipelines	—	—	—	—	1.9	—
GCXVII No. 13	Opening off-line equipment	—	—	—	—	4.8	—
GCXVII No. 14	Pump maintenance	—	—	—	—	3.5	—
GCXVII No. 15	Purging off-spec material to flares	—	—	—	—	3.3	—
GCXVII No. 16	Sampling (incl. corrosion coupons)	—	—	—	—	0.8	—
GCXVII No. 17	Solids removal	—	—	+	—	2.6	—
GCXVII No. 18	Solids removal from sumps	—	—	—	—	0.5	—
GCXVII No. 19	Vessel preparation	—	—	—	—	1.6	—
GCXVII No. 20	Exchanger maintenance	—	—	—	—	1.5	—
GCXVII No. 21	Depressure unit to flare	—	—	—	—	2.7	—
GCXVII No. 22	Draining liquid from bleeders	—	—	—	—	0.1	—
GCXVII No. 23	Servicing refrigeration unit	—	—	—	—	—	0.5

Unit: PTU (Purge Treatment Unit)

		TPY				
		CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 1	Drying beds	—	—	—	—	1.0
GCXVII No. 2	Polymer tanks A/B	—	—	—	—	0.8

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CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

Unit: CFH (Cat Feed Hydrotreater)

		TPY				
		CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 20	Exchanger maintenance	—	—	—	—	1.5
GCXVII No. 21	Depressure unit to flare	—	—	—	—	2.7
GCXVII No. 22	Air dryers – dessicant changeout ¹	—	—	—	—	2.6
GCXVII No. 23	Draining liquid from bleeders	—	—	—	—	0.3
GCXVII No. 24	Sulfiding catalyst	—	—	—	—	0.1
GCXVII No. 25	Catalyst changeout	—	—	0.04	—	—

¹assumes lb/activity is equivalent to FCC Catalyst loading/unloading

Unit: BLCOH

		TPY				
		CO	NO _x	PM ₁₀	SO ₂	VOC
GCXVII No. 1	Changing filters/pump screens	—	—	—	—	0.1
GCXVII No. 2	Cleaning equipment	—	—	—	—	0.1
GCXVII No. 3	Cleaning of pipelines	—	—	—	—	4.8
GCXVII No. 4	Compressor maintenance	—	—	—	—	0.9
GCXVII No. 5	Control device releases, maintenance	—	—	—	—	0.3
GCXVII No. 6	Isolation & control valve maintenance	—	—	—	—	0.4
GCXVII No. 7	Draining compressor bottles	—	—	—	—	0.6
GCXVII No. 8	Instrument maintenance	—	—	—	—	0.4
GCXVII No. 9	Liquid de-inventory to sewer	—	—	—	—	3.5
GCXVII No. 10	Miscellaneous equipment preparation	—	—	—	—	3.9
GCXVII No. 11	Nitrogen blowing of pipelines	—	—	—	—	1.9
GCXVII No. 12	Opening off-line equipment	—	—	—	—	4.3
GCXVII No. 13	Pump maintenance	—	—	—	—	3.5
GCXVII No. 14	Purging off-spec material to flares	—	—	—	—	3.3
GCXVII No. 15	Sampling (incl. corrosion coupons)	—	—	—	—	3.2
GCXVII No. 16	Solids removal	—	—	—	—	4.9
GCXVII No. 17	Solids removal from sumps	—	—	—	—	0.5
GCXVII No. 18	Vessel preparation	—	—	—	—	1.6
GCXVII No. 19	Exchanger maintenance	—	—	—	—	0.8
GCXVII No. 20	Depressure unit to flare	—	—	—	—	2.7
GCXVII No. 21	Draining liquid from bleeders	—	—	—	—	0.1
GCXVII No. 22	Sulfiding catalyst	—	—	—	—	0.1
GCXVII No. 23	Catalyst changeout	—	—	0.01	—	—

Unit: PFU

		TPY				
		CO	NO _x	PM ₁₀	SO ₂	VOG
GCXVII No. 1	Carbon canister changeouts	—	—	—	—	0.1
GCXVII No. 2	Changing filters/pump screens	—	—	—	—	0.1
GCXVII No. 3	Cleaning equipment	—	—	—	—	0.1
GCXVII No. 4	Cleaning of pipelines	—	—	—	—	4.8
GCXVII No. 5	Compressor maintenance	—	—	—	—	0.9
GCXVII No. 6	Control device releases, maintenance	—	—	—	—	0.3
GCXVII No. 7	Isolation & control valve maintenance	—	—	—	—	0.4
GCXVII No. 8	Draining compressor bottles	—	—	—	—	0.6
GCXVII No. 9	Instrument maintenance	—	—	—	—	0.4

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LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

Unit: CGH

		CO	NO _x	PM ₁₀	TPY SO ₂	VOC	NH ₃ /H ₂ S
GCXVII No. 1	Adding amine antifoam to process	-	-	-	-	0.01	-
GCXVII No. 2	Backwashing exchangers	-	-	-	-	0.25	-
GCXVII No. 3	Carbon replacement or recharging	-	-	-	-	<0.01	<0.01/<0.01
GCXVII No. 4	Changing fuel gas filters	-	-	-	-	0.01	-
GCXVII No. 5	Changing pump strainers	-	-	-	-	0.81	-
GCXVII No. 6	Changing filters	-	-	-	-	0.01	-
GCXVII No. 7	Cleaning equipment	-	-	-	-	2.01	-
GCXVII No. 8	Clearing of pipelines	-	-	-	-	0.01	-
GCXVII No. 9	Compressor maintenance	-	-	-	-	0.01	-
GCXVII No. 10	Heater pigging	-	-	<0.01	-	<0.01	-
GCXVII No. 11	Instrument maintenance	-	-	-	-	0.30	-
GCXVII No. 12	Liquid deinventory to the sewer	-	-	-	-	1.7	-
GCXVII No. 13	Miscellaneous equipment preparation	-	-	-	-	2.52	-
GCXVII No. 14	Nitrogen blowing of pipelines	-	-	-	-	<0.01	-
GCXVII No. 15	Pump maintenance	-	-	-	-	0.05	-
GCXVII No. 16	Recharging catalyst	-	-	<0.01	-	-	-
GCXVII No. 17	Sampling	-	-	-	-	0.80	-
GCXVII No. 18	Startup/Shutdown vents	-	-	-	-	<0.01	-
GCXVII No. 19	Soda washing	-	-	-	-	<0.01	-
GCXVII No. 20	Taking tanks out of service	-	-	-	-	0.79	-
GCXVII No. 21	Tank gauging	-	-	-	-	0.37	-
GCXVII No. 22	Unloading catalyst	-	-	<0.01	-	<0.01	-
GCXVII No. 23	Vacuum trucks	-	-	-	-	0.10	-
GCXVII No. 24	Valve maintenance	-	-	-	-	0.2	-
GCXVII No. 25	Vessel preparation	-	-	-	-	0.58	-

IX. Insignificant Activities

Citation

Air vents from air compressors.	LAC 33:III.501.B.5.B24
Buildings, cabinets, and facilities used for storage of chemicals in closed containers.	LAC 33:III.501.B.5.B12
Catalyst charging operations with annual emissions < 5 tons.	LAC 33:III.501.B.5.A11
Emergency use generators, boilers, or other fuel firing equipment.	LAC 33:III.501.B.5.B32
Emissions from oil mist generator and pump lubricating system.	LAC 33:III.501.B.5.B16
Emissions from process stream or process vent analyzers with annual emissions < 5 tons.	LAC 33:III.501.B.5.A9
Exhaust emissions or vehicle re-fueling emissions.	LAC 33:III.501.B.5.B4
Instrument air systems, excluding fuel-fired compressors	LAC 33:III.501.B.5.B22
Maintenance of grounds or buildings.	LAC 33:III.501.B.5.B1
Miscellaneous additions or upgrades of instrumentation or control system.	LAC 33:III.501.B.5.B9
Miscellaneous equipment maintenance or construction.	LAC 33:III.501.B.5.B3
Non-TAP emissions from storage or use of water treating chemicals (including cooling towers, drinking water systems, and boilerwater/feed water systems).	LAC 33:III.501.B.5.B8

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CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

IX. Insignificant Activities	Citation
Office activities such as photocopying, blueprint copying, and photographic processes.	LAC 33:III.501.B.5.B5
Periodic use of air for cleanup.	LAC 33:III.501.B.5.B25
Site assessment work to characterize waste disposal or remediation sites.	LAC 33:III.501.B.5.B6
Solid waste dumpsters.	LAC 33:III.501.B.5.B26
Stacks or vents to prevent escape of sanitary sewer gases through plumbing traps.	LAC 33:III.501.B.5.B15
Storage tanks < 10,000 gals storing organic liquids with TVP < 0.5 psia and annual emissions < 5 tons.	LAC 33:III.501.B.5.A3
Storage tanks < 250 gal storing organic liquids with TVP <= 3.5 psia and annual emissions < 5 tons.	LAC 33:III.501.B.5.A2
Storage tanks containing aqueous caustic solutions.	LAC 33:III.501.B.5.B40
Storage tanks containing spent; fresh soda ash solutions (volume < 10,000 gal, V.P. < 0.5 psia).	LAC 33:III.501.B.5.A3
Surface-coating of equipment using paint with < 3.5 lb/gal of organic TAP.	LAC 33:III.501.B.5.B2
Temporary portable diesel fuel storage tanks used in maintenance and construction activities.	LAC 33:III.501.B.5.B44
Use of products for the purpose of maintaining facility motor vehicles, not including A/C units.	LAC 33:III.501.B.5.B13
External combustion equipment with a design rate greater than or equal to 1 million Btu/hr, but less than or equal to 10 million Btu/hr, with annual emissions < 5 tons.	LAC 33:III.501.B.5.A1
Emissions of any inorganic air pollutant that is not a regulated air pollutant as defined under LAC 33:III.502, with annual emissions < 5 tons.	LAC 33:III.501.B.5.A4
External combustion equipment with a design rate less than 1 million Btu per hour.	LAC 33:III.501.B.5.A5
Laboratory equipment/vents used exclusively for routine chemical or physical analysis for quality control or environmental monitoring purposes with annual emissions < 5 tons.	LAC 33:III.501.B.5.A6
Noncommercial water washing operations of empty drums less than or equal to 55 gallons with less than 3 percent of the maximum container volume of material.	LAC 33:III.501.B.5.A7
Portable fuel tanks used on a temporary basis in maintenance and construction activities, provided that the aggregate emissions from all such tanks listed as insignificant do no exceed five tons per year.	LAC 33:III.501.B.5.A8
Process stream or process vent analyzers with annual emissions < 5 tons.	LAC 33:III.501.B.5.A9
Storage tanks containing, exclusively, soaps, detergents, surfactants, waxes, glycerin, vegetable oils, greases, animal fats, sweetener,	LAC 33:III.501.B.5.A10

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CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

IX. Insignificant Activities

Citation

molasses, corn syrup, aqueous salt solutions, or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials, the tanks are not subject to 40 CFR 60, Subpart Kb or other federal regulation, and the aggregate emissions from all such tanks listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Portable cooling towers used on a temporary basis in maintenance activities, provided the aggregate emissions from all such cooling towers listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Operation of groundwater remediation wells, including emissions from the pumps and collection activities. This does not include emissions from air stripping or storage.

Air contaminant detectors, air contaminant recorders, combustion controllers, or combustion shutoff devices.

Pneumatic starters on reciprocating engines, turbines, or other equipment.

Engine crankcase vents.

Emergency electrical power generators.

Water vapor, oxygen, carbon dioxide, nitrogen and hydrogen.

LAC 33:III.501.B.5.A12

LAC 33:III.501.B.5.B7

LAC 33:III.501.B.5.B11

LAC 33:III.501.B.5.B28

LAC 33:III.501.B.5.B30

LAC 33:III.501.B.5.B45

LAC 33:III.501.B.5.C

Unless otherwise stated, all activities stated above are for an operating schedule as follows:
24 hour/day; 7 day/week; 52 week/year.

X. Permit Shield

Annual Reporting

Semi-annual reporting periods required by 40 CFR Part 63 Subpart G (HON) and 40 CFR Part 63 Subpart CC (RMACT) will be on a calendar basis (January 1 through June 30 and July 1 through December 31) for consistency with the Title V reporting schedule.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

CAT AREA UNIT; AI No. 1250; PER20050022
 CITGO PETROLEUM CORPORATION
 LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

XI. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																			
		5 ▲	9	11	13	15	17	2103	2111	2113	2115	2122	2131	2141	2151	2153	29	51	52	56	59
GRP109	CAT AREA	1	1	1	1	1	1										1	1	1	1	1
EQT 27	3(II)21 Furnace Firing Cap																				
EQT 28	3(II)4 A Cat Steam Superheater Furnace, B-2 Furnace, B-6																				
EQT 29	3(II)5 B Cat Steam Superheater Furnace, B-2																				
EQT 30	3(II)8 B Cat Feed Preheat Furnace, B-6																				
EQT 31	3(II)6 C Cat Steam Superheater Furnace, B-2																				
EQT 32	3(II)9 C Cat Feed Preheat Furnace, B-6																				
EQT 33	3(XVI)3 Reactor Charge Heater, B-3																				
EQT 34	3(XVI)4 Stabilizer Reboiler, B-101																				
EQT 35	3(XXXIX)1 Recycle H ₂ Gas Heater, B-101																				
EQT 36	3(XXXIX)2 Fractionator Feed Heater, B-102																				
EQT 320	3(XXXXIV)7-101 Furnace B-101	3	1	1	2																2
EQT 321	3(XXXXIV)7-102 Furnace B-102	3	1	1	2																2
EQT 322	3(XXXXIV)7-103 Reboiler B-103	3	1	1	2																2
EQT 323	3(XXXXIV)7-201 Furnace B-201	3	1	1	2																2

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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 CITGO PETROLEUM CORPORATION
 LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

XI. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	5▲	9	11	13	15	17	2103	2111	2113	2115	2122	2131	2141	2151	2153	29	51	52	56	59
EQT 324	3(XXXIV)7-202 Furnace B-202	3	1	2																	2
EQT 325	3(XXXIV)7-203 Rebilier B-203	3	1	2																	2
GRP110	3(I)20 Wet Gas Scrubber Cap																				
EQT 38	3(I)16 A Cat Wet Gas Scrubber	1	1	1																	
EQT 39	3(I)17 B Cat Wet Gas Scrubber	1	1	1																	
EQT 40	3(I)18 C Cat Wet Gas Scrubber	1	1	1																	
EQT 42	3(I)13 - A Cat F-1 Vent (FCC Area)																3		1		
EQT 43	3(I)14 - B Cat F-1 Vent (FCC Area)																3		1		
EQT 44	3(I)15 - C Cat F-1 Vent (FCC Area)																3				
GRP 112	3(IX)64 PTU Cap																				
EQT 46	3(IX)52 PTU Polymer Storage Tank	1																			
EQT 47	3(IX)57 PTU Clarifier Overflow Tank	1																			
EQT 48	3(IX)59 PTU Wash Water Tank	1																			
EQT 49	3(IX)58 PTU Polymer Mixing Tank	1																			
EQT 50	3(IX)60 PTU Filtrate Sump	1																			
EQT 51	3(IX)61 Scrubber Makeup Tank	1																			
EQT 52	3(IX)53 PTU Flocculation	1																			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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 CITGO PETROLEUM CORPORATION
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XI. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																			
		5▲	9	11	13	15	17	2103	2111	2113	2115	2122	2131	2141	2151	2153	29	51	52	56	59
	Tank, T820A																				
EQT 53	3(IX)54 PTU Flocculation Tank, T820B	1																			1
EQT 54	3(IX)55 PTU Clarifier, L800A	1																			1
EQT 55	3(IX)56 PTU Clarifier, L800A	1																			1
GRP113	3(IX)65 Cooling Tower Cap																				
EQT 57	3(IX)62 PTU Cooling Tower																				1
EQT 58	3(IX)63 PTU Cooling Tower																				1
EQT 59	3(IX)50-340 Storm Water Tank																1				1
EQT 328	3(XXXIV)14 Lean Amine Drum Vent F-114																				1
EQT 329	3(XXXIV)15 Lean Amine Drum Vent F-214																				1
EQT 330	3(XXXIV)18 Oily Water Collection Sump Vent S-101															2					3
EQT 331	3(XXXIV)19 Oily Water Collection Sump Vent S-201															2					3
FUG 6	3(MISC)2 Cat Area Fugitives															1					1

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

CAT AREA UNIT; AI No. 1250; PER20050022
CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

Applicable Louisiana and Federal Air Quality Requirements

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

CAT AREA UNIT; AI No. 1250; PER20050022
 CITGO PETROLEUM CORPORATION
 LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

XI. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60												40 CFR 61												40 CFR		
		A	D	Db	Dc	J	Kb	VV	GGG	QQQ	A	J	Y	FF	M	A	Q	CC	EEEE	UUU	DDDDD	S2*	64	65	68	82		
GRP 110	3(II)20 Wet Gas Scrubber Cap																											
EQT 38	3(II)16 A Cat Wet Gas Scrubber	1																										
EQT 39	3(II)17 B Cat Wet Gas Scrubber	1																										
EQT 40	3(II)18 C Cat Wet Gas Scrubber	1																										
EQT 42	3(II)3 – A Cat F-1 Vent (FCC Area)																											2
EQT 43	3(II)14 – B Cat F-1 Vent (FCC Area)																											2
EQT 44	3(II)15 – C Cat F-1 Vent (FCC Area)																											2
GRP 112	3(IX)64 PTU Cap																											
EQT 46	3(IX)52 PTU Polymer Storage Tank	3																										
EQT 47	3(IX)57 PTU Clarifier Overflow Tank	3																										
EQT 48	3(IX)59 PTU Wash Water Tank	3																										
EQT 49	3(IX)58 PTU Polymer Mixing Tank	3																										
EQT 50	3(IX)60 PTU Filtrate Sump	3																										
EQT 51	3(IX)61 Scrubber Makeup Tank	3																										
EQT 52	3(IX)53 PTU Flocculation Tank, T820A	3																										
EQT 53	3(IX)54 PTU Flocculation Tank, T820B	3																										
EQT 54	3(IX)55 PTU Clarifier, L800A	3																										
EQT 55	3(IX)56 PTU Clarifier, L800A	3																										
GRP 113	3(IX)65 Cooling Tower Cap																											
EQT 57	3(IX)62 PTU Cooling Tower	1																										

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XI. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60												40 CFR 61												40 CFR			
		A	D	Db	Dc	J	Kb	VV	GGG	QQQ	A	J	FF	M	A	Q	CC	EEE	UUU	DDDDD	S2*	64	65	68	82				
EQT 58	3(LX)63 PTU Cooling Tower																												
EQT 59	3(LX)50-340 Storm Water Tank							1											1										
EQT 328	3(XXXIV)14 Lean Acne Drum Vent F-114																	1										1	
EQT 329	3(XXXIV)15 Lean Acne Drum Vent F-214																	1										1	
EQT 330	3(XXXIV)18 Oily Water Collection Sump Vent S-101																												1
EQT 331	3(XXXIV)19 Oily Water Collection Sump Vent S-201																												1
FUG 6	3(MISC)2 Cat Area Fugitives																	1	1									1	

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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XII. Explanation for Exemption Status of a Source

ID No:	Requirement	Notes
CAT Area	New Emission Sources and Major Modifications in Specified Parishes	EXEMPT – LAC 33:510.C.3.b
	Compliance Assurance Monitoring for Major Stationary Sources 40 CFR 64	EXEMPT – Pollutant specific emissions units located within this area are subject to MACT rules promulgated after November 15, 1990.
GRP 110 EQT 38, 3(II)16 Wet Gas Scrubber	Emission Monitoring Requirements LAC 33:III.915.A	EXEMPT – LAC 33:915.D Wet Gas Scrubber modification triggers NSPS Subpart J.
EQT 39, 3(II)17 Wet Gas Scrubber	Standards for Particulate Matter LAC 33:III.1311.D	DOES NOT APPLY – LAC 33:1311.F
EQT 40, 3(II)18 Wet Gas Scrubber	Compliance Assurance Monitoring 40 CFR 64	EXEMPT – Subject to NESHAP Subpart UUU 40 CFR 64.2(b)(i) for particulates. CAM plan required for Sulfur dioxide, CEMS will be installed. CO not a regulated pollutant under 40 CFR 64.1 no CAM plan required.

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XII. Explanation for Exemption Status of a Source

ID No:	Requirement	Notes
GRP 110	NESHAP Subpart CC – National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries 40 CFR 63.640	DOES NOT APPLY – Catalytic Cracking Unit 40 CFR 63.640(d)(4)
EQT 38, 3(II)16 Wet Gas Scrubber		
EQT 39, 3(II)17 Wet Gas Scrubber		
EQT 40, 3(II)18 Wet Gas Scrubber (Continued)		
EQT 42, 3(II) F-1 Vent - A Cat F-1 Vent (FCC Area)	Waste Gas Disposal LAC 33:III.2115	DOES NOT APPLY – No VOC emissions from these vents.
EQT 43, 3(II) F-1 Vent - B Cat F-1 Vent (FCC Area)	NESHAP Subpart CC – National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries 40 CFR 63.640	DOES NOT APPLY – Source is part of Catalytic Cracking unit, which is not covered by this regulation 40 CFR 63.640(d)(4) and 40 CFR 63.641 Miscellaneous process vent definition.
EQT 44, 3(II) F-1 Vent - C Cat F-1 Vent (FCC Area)		
GRP 109	Comprehensive Toxic Air Pollutant Program LAC 33:III.5109	EXEMPT – Refinery fuel is classified as Group 1 virgin fossil fuel. LAC 33:III.5105.B.3.a.
3(II)21 Furnace Firing Cap		
EQT 27 – EQT 36, and EQT 320 – EQT 325		

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XII. Explanation for Exemption Status of a Source

ID No:	Requirement	Notes
GRP 112, PTU Cap EQT 46, EQT 47, EQT 48, EQT 49, EQT 50, and EQT 51	Emission Standards for Sulfur Dioxide LAC 33.III.1503	DOES NOT APPLY – No sulfur dioxide sources.
	Storage of Volatile Organic Compounds LAC 33.III.2103	DOES NOT APPLY – These tanks do not store material meeting the volatile organic compounds definition.
	NSPS Subpart Kb – Standards for Performance for Volatile Organic Liquid Storage Vessels for Petroleum Liquids 40 CFR 60.110b	DOES NOT APPLY – These tanks do not store a volatile organic liquid (VOL).
	NESHAP Subpart CC – National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries 40 CFR 63.640 – 654	DOES NOT APPLY – Source is not an affected facility.
	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquid Distribution (Non Gasoline) 40 CFR 63.2334	DOES NOT APPLY – Subsumed by 40 CFR 63 Subpart CC
EQT 59, 3(IX)50-340 – Tank 340 Storm Water Tank	NESHAP Subpart EEEE – National Emission Standards for Hazardous Air Pollutants: Organic Liquid Distribution (Non Gasoline) 40 CFR 63.2334	DOES NOT APPLY – Subsumed by 40 CFR 63 Subpart CC

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XII. Explanation for Exemption Status of a Source		
ID No.	Requirement	Notes
EQT 328 and EQT 329 3(XXXIV)14 3(XXXIV)15 Lean Amine Drum Vent F-114 and F-214	Waste Gas Disposal LAC 33.III.2115	EXEMPT – VOC emissions are less than 100 pounds per 24 hour period.
	NESHAP Subpart CC – National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries 40 CFR 63.640	DOES NOT APPLY – These sources do not contain greater than 20 ppm organic HAP and therefore do not meet the definition of miscellaneous process vents.
EQT 330 and EQT 331 3(XXXIV)18 3(XXXIV)19 Oily Water Collection Sump Vents	Waste Gas Disposal LAC 33.III.2115	EXEMPT – VOC emissions are less than 100 pounds per 24 hour period.
	Comprehensive Toxic Air Pollutant Program LAC 33.III.5107 LAC 33.III.5109 STATE ONLY	DOES NOT APPLY – These emission points do not emit LTAPs.
	NESHAP Subpart CC – National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries 40 CFR 63.640	DOES NOT APPLY – These sources do not contain greater than 20 ppm organic HAP and therefore do not meet the definition of miscellaneous process vents.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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The preceding table provides explanation for the non-applicability or exemption status of a source that may be cited by 2 or 3 in the matrix presented in Section X of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than 180 days prior to the permit expiration date. Should a timely and complete permit application not be submitted prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

40 CFR PART 70 GENERAL CONDITIONS

H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:

1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]

I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.

[Reference 40 CFR 70.6(a)(3)(ii)(B)]

J. Records of required monitoring shall include the following:

1. the date, place as defined in the permit, and time of sampling or measurements;
2. the date(s) analyses were performed;
3. the company or entity that performed the analyses;
4. the analytical techniques or methods used;
5. the results of such analyses; and
6. the operating conditions as existing at the time of sampling or measurement.

[Reference 40 CFR 70.6(a)(3)(ii)(A)]

K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the

40 CFR PART 70 GENERAL CONDITIONS

prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]

- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with

40 CFR PART 70 GENERAL CONDITIONS

any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]

- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

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3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. ~~Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;~~
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;

40 CFR PART 70 GENERAL CONDITIONS

3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The attached Facility Specific Requirements or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Facility Specific Requirements or, where included, Tables 2 and 3 of the permit. This permit modification was originated by the Department. A permit application and Emission Inventory Questionnaire (EIQ) dated February 23, 2006 were received requesting a Part 70 operating permit modification.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Permits Division.

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Environmental Technology Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Environmental Technology Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Environmental Technology Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
 - 1. Description of noncomplying emission(s);
 - 2. Cause of noncompliance;
 - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 - 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
-
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Permits Division are considered authorized discharges. Approved

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:1.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information
AI ID: 1250 Citgo Petroleum Corp - Lake Charles Manufacturing Complex
Activity Number: PER20050022
Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

Also Known As:	ID	Name	User Group	Start Date
	0520-00016	Citgo Petroleum Corp - Lake Charles Manufacturing Complex	CDS Number	05-27-1993
	0520-0016	Citgo Petroleum Corp - Lake Charles Manufacturing Complex	Emission Inventory	03-01-2004
	73-1173881	Federal Tax ID	Federal Tax ID	01-21-1998
LAD008080350	Citgo Petroleum Corp	Hazardous Waste Notification	Hazardous Waste Permitting	08-13-1980
PC/CA	GPRAs Baselines	Inactive & Abandoned Sites	Inactive & Abandoned Sites	10-01-1997
00212	Cities Service Oil & Gas	Inactive & Abandoned Gas	Inactive & Abandoned Gas	11-27-1979
LAD008080350	Citgo Petroleum Corp	LPDES #	LPDES Permit #	11-27-1979
LA0005941	LPDES #	LPDES #	LPDES Permit #	05-22-2003
LAR05N113	LPDES #	LPDES #	LPDES Permit #	10-24-2001
LAR10B787	LPDES #	LPDES #	LPDES Permit #	01-17-2002
LAR10B899	LPDES #	LPDES #	LPDES Permit #	06-25-2003
LAR10B978	LPDES #	LPDES #	LPDES Permit #	09-27-2002
LAR10C363	LPDES #	LPDES #	LPDES Permit #	08-08-2004
WP4260	WPC State Permit Number	WPC State Permit Number	WDPDS Permit #	06-25-2003
LA-2312-L01	Radioactive Material License	Radioactive Material License	Radiation License Number	10-02-2000
2312	X-Ray Registration Number	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
G-019-1516	Site ID #	Site ID #	Solid Waste Facility No.	11-21-1999
GD-019-0494	SW ID#	SW ID#	Solid Waste Facility No.	04-30-2001
2098	Cities Service Co	Cities Service Co	TEMPO Merge	06-17-2003
27761	Citgo Petroleum Corp	Citgo Petroleum Corp	TEMPO Merge	01-08-2001
38803	Citgo Petroleum Corp - Lake Charles Operations	Citgo Petroleum Corp	TEMPO Merge	07-15-2001
41047	Citgo Petroleum Corp	Citgo Petroleum Corp	TEMPO Merge	01-08-2001
47222	Citgo Petroleum Corp - Lake Charles Refinery	Citgo Petroleum Corp - Butyl Plant	TEMPO Merge	09-12-2001
4723	Cities Service Co - Butyl Plant	Cities Service Co - Lube Plant	TEMPO Merge	01-08-2001
4724	Cities Service Co - Lube Plant	Toxic Emissions Data Inventory #	TEMPO Merge	06-17-2003
0520-0016	Toxic Emissions Data Inventory #	TRI #	Toxic Emissions Data Inventory #	01-01-1991
70602CTGPTHIGHHW	TRI #	Water Quality Certification #	Toxic Release Inventory	07-09-2004
WQC 011005-02	Water Quality Certification #	Water Quality Certification #	Water Certification	10-09-2001
WQC 020605-05	Water Quality Certification #	Water Quality Certification #	Water Certification	06-06-2002
WQC RC 050209-04	Water Quality Certification #	Water Quality Certification #	Water Certification	02-22-2005
WQC TR 030814-01	Water Quality Certification #	Water Quality Certification #	Water Certification	08-14-2003
			Main Phone:	3377086079
			Physical Location:	4401 Hwy 108 S (a portion of)

General Information

AI ID: 1250 Clitgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air • Title V Regular Permit Minor Mod

Sulphur, LA 70669

Mailing Address:

PO Box 1562
Lake Charles, LA 706021562

Location of Front Gate:

30° 11' 0" 78 hundredths latitude, 93° 19' 12" 40 hundredths longitude, Coordinate Method: GPS Code (Psuedo Range) Precise Position, Coordinate Datum: NAD27

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Mary Burns	PO Box 1562 Lake Charles, LA 706021562	3377087507 (WP)	Accident Prevention Contact for
Vina Charles	PO Box 1562 Lake Charles, LA 706021562	3377087008 (WP)	Radiation Contact For
Dave Hollis	PO Box 1562 Lake Charles, LA 706021562	3377086400 (WP)	Solid Waste Billing Party for
Vickie Pierre	PO Box 1562 Lake Charles, LA 706021562	3377086248 (WP)	Accident Prevention Billing Party for
Karl Schmidt	PO Box 1562 Lake Charles, LA 706021562	3377086248 (WP)	Responsible Official for
Judy Spears	PO Box 1562 Lake Charles, LA 706021562	3377086797 (WP)	Radiation Safety Officer for
Judy Spears	PO Box 1562 Lake Charles, LA 706021562	3377080797 (WF)	Radiation Safety Officer for
Russ Willmon	PO Box 1562 Lake Charles, LA 706021562	3377087336 (WP)	Responsible Official for

Related Organizations:

Name	Address	Phone (Type)	Relationship
Clitgo Petroleum Corp	PO Box 4689 Houston, TX 772104689	8324864000 (WP)	Owns
Clitgo Petroleum Corp	PO Box 1562 Lake Charles, LA 706021562	3377088739 (WP)	Radiation License Billing Party for
Clitgo Petroleum Corp	PO Box 1562 Lake Charles, LA 706021562	3377088739 (WP)	Water Billing Party for
Clitgo Petroleum Corp	PO Box 1562 Lake Charles, LA 706021562	3377088739 (WP)	Air Billing Party for
URS Corp	7389 Florida Blvd Ste 300 Baton Rouge, LA 70806	2259225700 (WP)	Provides environmental services for
URS Corp	7389 Florida Blvd Ste 300 Baton Rouge, LA 70806	2259225701 (WF)	Provides environmental services for

SIC Codes:

- 2819, Industrial inorganic chemicals, nec
- 2821, Plastics materials and resins
- 2822, Synthetic rubber
- 2869, Industrial organic chemicals, nec
- 2911, Petroleum refining

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
 Activity Number: PER20050022
 Permit Number: 2908-V1
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT027	3(I)4 - A Cat Steam Superheater Furnace, B-2		16.08 MM BTU/hr	13.4 MM BTU/hr		8760 hr/yr (All Year)
EQT028	3(I)7 - A Cat Feed Preheat Furnace, B-6		183.56 MM BTU/hr	156.2 MM BTU/hr		8760 hr/yr (All Year)
EQT029	3(I)5 - B Cat Steam Superheater Furnace, B-2	23.13 MM BTU/hr	18.5 MM BTU/hr			8760 hr/yr (All Year)
EQT030	3(I)8 - B Cat Feed Preheat Furnace, B-6	100.22 MM BTU/hr	81.4 MM BTU/hr			8760 hr/yr (All Year)
EQT031	3(I)6 - C Cat Steam Superheater Furnace, B-2		16.08 MM BTU/hr	13.4 MM BTU/hr		8760 hr/yr (All Year)
EQT032	3(I)9 - C Cat Feed Preheat Furnace, B-6		183.56 MM BTU/hr	156.2 MM BTU/hr		8760 hr/yr (All Year)
EQT033	3(XVI)3 - BlCOH Reactor Charge Heater, B-3	25.18 MM BTU/hr	20 MM BTU/hr			8760 hr/yr (All Year)
EQT034	3(XVI)4 - BlCOH Stabilizer Reboiler, B-101	36.54 MM BTU/hr	24.57 MM BTU/hr			8760 hr/yr (All Year)
EQT035	3(XXXI)1 - Cat Feed Hydrate Recycle Hydrogen Furnace, B-101	172.16 MM BTU/hr	116.9 MM BTU/hr			8760 hr/yr (All Year)
EQT036	3(XXXI)2 - Cat Feed Hydrate Fractionator Feed Heater, B-102		114.4 MM BTU/hr	51.2 MM BTU/hr		8760 hr/yr (All Year)
EQT038	3(I)16 - A Cat - Wet Gas Scrubber	540000 lb/hr	400000 lb/hr			8760 hr/yr (All Year)
EQT039	3(I)17 - B Cat - Wet Gas Scrubber		540000 lb/hr	400000 lb/hr		8760 hr/yr (All Year)
EQT040	3(I)18 - C Cat - Wet Gas Scrubber		540000 lb/hr	400000 lb/hr		8760 hr/yr (All Year)
EQT042	3(I)13 - A Cat F-1 Vent (FC Area)					8760 hr/yr (All Year)
EQT043	3(I)14 - B Cat F-1 Vent (FC Area)					8760 hr/yr (All Year)
EQT044	3(I)15 - C Cat F-1 Vent (FC Area)					8760 hr/yr (All Year)
EQT046	3(X)52 - Purge Treatment Unit - Polymer Tank, T-822	6500 gallons			Polymer	8760 hr/yr (All Year)
EQT047	3(X)57 - Purge Treatment Unit - Clarifier Overflow Tank, T-823	3820 gallons			wastewater	8760 hr/yr (All Year)
EQT048	3(X)59 - Purge Treatment Unit - Wash Water Tank, T-824	8225 gallons			wastewater	8760 hr/yr (All Year)
EQT049	3(X)58 - Purge Treatment Unit - Polymer Mixing Tank, T-825	6500 gallons			polymer/water	8760 hr/yr (All Year)
EQT050	3(X)60 - Purge Treatment Unit - Filtrate Sump	2155 gallons			wastewater	8760 hr/yr (All Year)
EQT051	3(X)61 - Purge Treatment Unit - Scrubber Makeup Tank, F-321	8225 gallons			wastewater	8760 hr/yr (All Year)
EQT052	3(X)53 - Purge Treatment Unit - Flocculation Tank, T-820A	3820 gallons			wastewater	8760 hr/yr (All Year)
EQT053	3(X)54 - Purge Treatment Unit - Flocculation Tank, T-820B	3820 gallons			wastewater	8760 hr/yr (All Year)
EQT054	3(X)55 - Purge Treatment Unit - Clarifier, L800A	167000 gallons			wastewater	8760 hr/yr (All Year)
EQT055	3(X)56 - Purge Treatment Unit - Clarifier, L800B	167000 gallons			wastewater	8760 hr/yr (All Year)
EQT057	3(X)62 - Purge Treatment Unit - Cooling Tower, CT-817A		900 gallons/min	900 gallons/min		8760 hr/yr (All Year)
EQT058	3(X)63 - Purge Treatment Unit - Cooling Tower, CT-817B	900 gallons/min	900 gallons/min			8760 hr/yr (All Year)
EQT059	3(X)50-340 - Tank 340 Storm Water Tank	12 million gallons			storm water	8760 hr/yr (All Year)
EQT320	3(XXXXIV)7 - 101 - Furnace B-101	82 MM BTU/hr	62.8 MM BTU/hr			8760 hr/yr (All Year)
EQT321	3(XXXXIV)7 - 102 - Furnace B-102	82 MM BTU/hr	56.9 MM BTU/hr			8760 hr/yr (All Year)
EQT322	3(XXXXIV)7 - 103 - Reboiler E-103	50 MM BTU/hr	38.3 MM BTU/hr			8760 hr/yr (All Year)
EQT323	3(XXXXIV)7 - 201 - Furnace E-201	82 MM BTU/hr	62.8 MM BTU/hr			8760 hr/yr (All Year)
EQT324	3(XXXXIV)7 - 202 - Furnace E-202	82 MM BTU/hr	56.9 MM BTU/hr			8760 hr/yr (All Year)
EQT325	3(XXXXIV)7 - 203 - Reboiler E-203	50 MM BTU/hr	38.3 MM BTU/hr			8760 hr/yr (All Year)

INVENTORIES

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
 Activity Number: PER20050022
 Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT328	3(XXXXIV)14 - Lean Amine Drum Vent F-114		108 scf/hr	108 scf/hr		8760 hr/yr (All Year)
EQT329	3(XXXXIV)15 - Lean Amine Drum Vent F-214		108 scf/hr	108 scf/hr		8760 hr/yr (All Year)
EQT330	3(XXXXIV)18 - Oily Water Collection Sump Vent S-101	16460 gallons				8760 hr/yr (All Year)
EQT331	3(XXXXIV)19 - Oily Water Collection Sump Vent S-201	16460 gallons				8760 hr/yr (All Year)
EQT332	Carbon Canister				(None Specified)	
FUG006	3(MISC)2 - CAT Area Fugitives					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP108	CAT Area	EQT42 3(I)13 - A Cat F-1 Vent (FCC Area)
GRP108	CAT Area	EQT43 3(I)14 - B Cat F-1 Vent (FCC Area)
GRP108	CAT Area	EQT44 3(I)15 - C Cat F-1 Vent (FCC Area)
GRP108	CAT Area	EQT59 3(I)50-340 - Tank 340 Storm Water Tank
GRP108	CAT Area	EQT328 3(XXXIV)14 - Lean Amine Drum Vent F-114
GRP108	CAT Area	EQT329 3(XXXIV)15 - Lean Amine Drum Vent F-214
GRP108	CAT Area	EQT330 3(XXXIV)18 - Oily Water Collection Sump Vent S-101
GRP108	CAT Area	EQT331 3(XXXIV)19 - Oily Water Collection Sump Vent S-201
GRP108	CAT Area	EQT332 Carbon Canister
GRP108	CAT Area	FUG6 3(MISC)2 - CAT Area Fugitives
GRP108	CAT Area	GRP109 3(I)21 - Furnace Firing Cap
GRP108	CAT Area	GRP110 3(I)20 - Cap for Wet Gas Scrubber
GRP108	CAT Area	GRP112 3(I)64 - Purge Treatment Unit Cap
GRP108	CAT Area	GRP113 3(I)65 - Cooling Tower Cap
GRP109	3(I)21 - Furnace Firing Cap	EQT27 3(I)4 - A Cat Steam Superheater Furnace, B-2
GRP109	3(I)21 - Furnace Firing Cap	EQT28 3(I)7 - A Cat Feed Preheat Furnace, B-6
GRP109	3(I)21 - Furnace Firing Cap	EQT29 3(I)5 - B Cat Steam Superheater Furnace, B-2
GRP109	3(I)21 - Furnace Firing Cap	EQT30 3(I)8 - B Cat Feed Preheat Furnace, B-6
GRP109	3(I)21 - Furnace Firing Cap	EQT31 3(I)6 - C Cat Steam Superheater Furnace, B-2
GRP109	3(I)21 - Furnace Firing Cap	EQT32 3(I)9 - C Cat Feed Preheat Furnace, B-6
GRP109	3(I)21 - Furnace Firing Cap	EQT33 3(XVI)3 - BLCOH Reactor Charge Heater, B-3
GRP109	3(I)21 - Furnace Firing Cap	EQT34 3(XVI)4 - BLCOH Stabilizer Reboiler, B-101
GRP109	3(I)21 - Furnace Firing Cap	EQT35 3(XIX)1 - Cat Feed Hydrotreater Recycle Hydrogen Furnace, B-101
GRP109	3(I)21 - Furnace Firing Cap	EQT36 3(XIX)2 - Cat Feed Hydrotreater Fractionator Feed Heater, B-102
GRP109	3(I)21 - Furnace Firing Cap	EQT320 3(XXXIV)7 - 101 - Furnace B-101
GRP109	3(I)21 - Furnace Firing Cap	EQT321 3(XXXIV)7 - 102 - Furnace B-102
GRP109	3(I)21 - Furnace Firing Cap	EQT322 3(XXXIV)7 - 103 - Reboiler B-103

INVENTORIES

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
 Activity Number: PER20050022
 Permit Number: 2908-V1
 Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP109	3(I)121 - Furnace Firing Cap	EQT323 3(I)XXXIV/7 - 201 - Furnace B-201
GRP109	3(I)121 - Furnace Firing Cap	EQT324 3(I)XXXIV/7 - 202 - Furnace B-202
GRP109	3(I)121 - Furnace Firing Cap	EQT325 3(I)XXXIV/7 - 203 - Reb boiler B-203
GRP110	3(I)20 - Cap for Wet Gas Scrubber	EQT38 3(I)16 - A Cat - Wet Gas Scrubber
GRP110	3(I)20 - Cap for Wet Gas Scrubber	EQT39 3(I)17 - B Cat - Wet Gas Scrubber
GRP110	3(I)20 - Cap for Wet Gas Scrubber	EQT40 3(I)18 - C Cat - Wet Gas Scrubber
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT46 3(I)X52 - Purge Treatment Unit - Polymer Tank, T-822
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT47 3(I)X57 - Purge Treatment Unit - Clarifier Overflow Tank, T-823
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT48 3(I)X59 - Purge Treatment Unit - Wash Water Tank, T-824
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT49 3(I)X58 - Purge Treatment Unit - Polymer Mixing Tank, T-825
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT50 3(I)X60 - Purge Treatment Unit - Filtrate Sump
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT51 3(I)X61 - Purge Treatment Unit - Scrubber Makeup Tank, F-321
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT52 3(I)X53 - Purge Treatment Unit - Flocculation Tank, T-820A
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT53 3(I)X54 - Purge Treatment Unit - Flocculation Tank, T-820B
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT54 3(I)X55 - Purge Treatment Unit - Clarifier, L800A
GRP112	3(I)X64 - Purge Treatment Unit Cap	EQT55 3(I)X56 - Purge Treatment Unit - Clarifier, L800B
GRP113	3(I)X65 - Cooling Tower Cap	EQT57 3(I)X62 - Purge Treatment Unit - Cooling Tower, CT-817A
GRP113	3(I)X65 - Cooling Tower Cap	EQT58 3(I)X63 - Purge Treatment Unit - Cooling Tower, CT-817B

Relationships:

Subject Item	Relationship	Subject Item
EQT328 3(XXXIV)14 - Lean Amine Drift Vent F-114	Controlled by	EQT332 Carbon Canister
EQT329 3(XXXIV)15 - Lean Amine Drift Vent F-214	Controlled by	EQT332 Carbon Canister

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT027	3(I)4 - A Cat Steam Super heater Furnace, B-2	14.08	3015	2.75	55	476.8
EQT028	3(I)7 - A Cat Feed Preheat Furnace, B-6	31.92	73668	7	114	720.4
EQT029	3(I)5 - B Cat Steam Super heater Furnace, B-2	20.75	7391	2.75	55	540
EQT030	3(I)8 - B Cat Feed Preheat Furnace, B-6	17.45	40281	7	114	778.5
EQT031	3(I)6 - C Cat Steam Super heater Furnace, B-2	12.99	4627	2.75	55	404
EQT032	3(I)9 - C Cat Feed Preheat Furnace, B-6	31.61	72963.03	7	114	709.1
EQT033	3(XVII)3 - BLCOH Reactor Charge Heater, B-3	10.61	7998	4	110.75	541
EQT034	3(XVII)4 - BLCOH Stabilizer	10.6	11210	4.75	90	688
EQT035	3(XXXI)1 - Cat Feed Hydroreater Recycle Hydrogen Furnace, B-101	18.33	48559.86	7.5	124	579.7
EQT036	3(XXXI)2 - Cat Feed Hydroreater Fractionator Feed Heater, B-102	21.56	36555	6	124	580
EQT038	3(I)16 - A Cat - Wet Gas Scrubber	40.76	122924	8	230	156
EQT039	3(I)17 - B Cat - Wet Gas Scrubber	40.76	122924	8	230	156

INVENTORIES

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT040	3(I)18 - C Cat - Wet Gas Scrubber	.40 .76	122924	.8		230	156
EQT042	3(I)13 - A Cat F-1 Vent (FQC Area)	.34	1.77	.33		60	77
EQT043	3(I)14 - B Cat F-1 Vent (FQC Area)	.34	1.77	.33		60	77
EQT044	3(I)15 - C Cat F-1 Vent (FQC Area)	.34	1.77	.33		60	77
EQT046	3(I)52 - Purge Treatment Unit - Polymer Tank, T-822			.10		.12	.70
EQT047	3(I)57 - Purge Treatment Unit - Clarifier Overflow Tank, T-823			.85		.10	.150
EQT048	3(I)59 - Purge Treatment Unit - Wash Water Tank, T-824			.10		.16	.150
EQT049	3(I)58 - Purge Treatment Unit - Polymer Mixing Tank, T-825			.10		.12	.70
EQT050	3(I)60 - Purge Treatment Unit - Filtrate Sump			.8		.6	.70
EQT051	3(I)61 - Purge Treatment Unit - Scrubber Makeup Tank, F-321			.10		.16	.150
EQT052	3(I)53 - Purge Treatment Unit - Flocculation Tank, T-820A			.8.5		.10	.150
EQT053	3(I)54 - Purge Treatment Unit - Flocculation Tank, T-820B			.8.5		.10	.150
EQT054	3(I)55 - Purge Treatment Unit - Clarifier L-800A			.45		.14	.150
EQT055	3(I)56 - Purge Treatment Unit - Clarifier L-800B			.45		.14	.150
EQT059	3(I)50-34-0 - Tank 340 Storm Water Tank			.210		.50	.120
EQT320	3(XXXIV)7 - 101 - Furnace B-101	.25	16785	3.78		.180	.600
EQT321	3(XXXIV)7 - 102 - Furnace B-102	.25	25189	4.62		.180	.600
EQT322	3(XXXIV)7 - 103 - Reboiler B-103	.25	22538	4.37		.180	.600
EQT323	3(XXXIV)7 - 201 - Furnace B-201	.25	16785	3.78		.180	.600
EQT324	3(XXXIV)7 - 202 - Furnace B-202	.25	25189	4.62		.180	.600
EQT325	3(XXXIV)7 - 203 - Reboiler B-203	.25	22538	4.37		.180	.600
EQT330	3(XXXIV)18 - Oily Water Collection Sump Vent S-101						
EQT331	3(XXXIV)19 - Oily Water Collection Sump Vent S-201						

Fee Information:

Sub Item Id	Multiplier	Units Of Measure	Fee Desc
GRP108	16.5	1,000 BBL/Day	0720 - Petroleum Refining (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

Subject Item 30104	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 027 30104		0.12			1.23			1.58			1.32				0.09
EQT 028 30107		1.37			14.02			50.39			15.12				0.99
EQT 029 30105		0.17			1.77			1.13			1.90				0.12
EQT 030 30108		0.75			7.66			9.83			8.25				0.54
EQT 031 30106		0.12			1.23			1.58			1.32				0.09
EQT 032 30109		1.37			14.02			50.39			15.12				0.99
EQT 033 30103		0.19			1.92			2.47			2.07				0.14
EQT 034 30104		0.27			2.79			3.58			3.01				0.20
EQT 035 30100X1		1.28			13.15			9.12			14.18				0.93
EQT 036 30100X2		0.85			8.74			5.15			9.42				0.62
EQT 038 30116		46.67			208.14			431.76			207.97				94.58
EQT 039 30117		46.67			208.14			431.76			207.97				94.58
EQT 040 30118		46.67			208.14			431.76			207.97				94.58
EQT 042 30113		1.31	16.00	5.76											
EQT 043 30114		1.31	16.00	5.76											
EQT 044 30115		1.31	16.00	5.76											
EQT 046 301X52															2.29
EQT 047 301X57															2.07

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 048 3 0 X59															5.79
EQT 049 3 0 X58															2.29
EQT 050 3 0 X50															2.02
EQT 051 3 0 X51															5.79
EQT 052 3 0 X53															2.07
EQT 053 3 0 X54															2.07
EQT 054 3 0 X55															4.64
EQT 055 3 0 X56															4.64
EQT 057 3 0 X52	0.02														0.20
EQT 058 3 0 X53	0.02														0.20
EQT 059 3 0 X59-340															
EQT 320	0.23			5.08			3.28			2.46			1.28		5.59
3 XXX WY7-101															
EQT 321 3 XXX WY7-102	0.23			5.08			3.28			2.46			0.41		0.41
EQT 322 3 XXX WY7-103	0.15			3.10			2.00			1.50			0.25		
EQT 323 3 XXX WY7-201	0.23			5.08			3.28			2.46			0.41		
EQT 324 3 XXX WY7-202	0.23			5.08			3.28			2.46			0.41		
EQT 325 3 XXX WY7-203	0.15			3.10			2.00			1.50			0.25		
EQT 328 3 XXX WY7-204													0.03	0.03	0.11

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC			
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 329															0.03	0.03
3xxxxxx15															0.11	0.11
EQT 330															0.10	0.19
3xxxxxx16															0.44	0.44
EQT 331															0.10	0.19
3xxxxxx19															0.44	0.44
FUG 006															743.88	743.88
3MISC12																
GRP 109	5.80		25.48	32.06	149.16	122.78			539.10	63.16		277.26		5.29		22.36
GRP 110	100.00		439.20	63.36		277.52	637.36		2792.51	77.31		339.55		6.31		27.62
GRP 112															0.45	1.98
GRP 113	0.02			0.09										0.20		0.88

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 482.05 tons/yr
 SO2: 426.68 tons/yr
 NOx: 3331.6 tons/yr
 CO: 616.81 tons/yr
 VOC: 803.41 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
 Activity Number: PER20050022
 Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

1,3-Butadiene			2,2,4-Trimethylpentane			Ammonia			Antimony (and compounds)			Benzene
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 038 3(I)16						81.06			0.03			6.34
EQT 039 3(I)17						81.06			0.03			6.34
EQT 040 3(I)18						81.06			0.03			6.34
EQT 042 3(I)13							<	0.001	0.001	<	0.001	
EQT 043 3(I)14							<	0.001	0.001	<	0.001	
EQT 044 3(I)15							0.001		0.001	<	0.001	
EQT 048 3(I)59												1.45
EQT 051 3(I)61												1.45
EQT 054 3(I)55												1.16
EQT 055 3(I)56												1.16
EQT 057 3(I)62												0.01
EQT 058 3(I)63												0.01
EQT 059 3(I)50-340				0.003	0.01							0.10
EQT 328 3(XXXIV)14												0.02
EQT 329 3(XXXIV)15												
EQT 330 3(XXXIV)18												0.002
EQT 331 3(XXXIV)19												0.002
FUG 006 3(MSC)2	0.06		0.27	0.03		0.11	0.41	1.81		0.89		3.92

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

Chlorine			Copper (and compounds)			Cumene			Ethy/ benzene			Hydrogen sulfide			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 038 3\ 16				0.003						3.12				24.32	
EQT 039 3\ 17				0.003						3.12				24.32	
EQT 040 3\ 18				0.003						3.12				24.32	
EQT 042 3\ 13				< 0.001	0.001	< 0.001									
EQT 043 3\ 14				< 0.001	0.001	< 0.001									
EQT 044 3\ 15				< 0.001	0.001	< 0.001									
EQT 048 3\ X59													1.45		
EQT 051 3\ X61													1.45		
EQT 054 3\ X55													1.16		
EQT 055 3\ X56													1.16		
EQT 057 3\ X62				0.02									0.01		
EQT 058 3\ X63				0.02									0.01		
EQT 059 3\ X56-340										0.01			0.02		
EQT 328 3\ XXXV14													< 0.001	< 0.001	< 0.001
EQT 329 3\ XXXV15													< 0.001	< 0.001	< 0.001
EQT 330 3\ XXXV18										< 0.001	0.001		0.01		
EQT 331 3\ XXXV19										< 0.001	0.001		0.01		
FUG 006 3\ MSC2							0.04	0.16	0.54		2.37	3.28		14.39	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

All phases		Lead compounds			Naphthalene			Nickel (and compounds)			Phenol			Polynuclear Aromatic Hydrocarbons		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 038 3 0 16		0.01							0.05							
EQT 039 3 0 17		0.01							0.05							
EQT 040 3 0 18		0.01							0.05							
EQT 042 3 0 13	< 0.001	0.003	< 0.001				< 0.001	0.02	0.004							
EQT 043 3 0 14	< 0.001	0.003	< 0.001				< 0.001	0.02	0.004							
EQT 044 3 0 15	< 0.001	0.003	< 0.001				< 0.001	0.02	0.004							
EQT 048 3 0 X59																
EQT 051 3 0 X61																
EQT 054 3 0 X55																
EQT 055 3 0 X62																
EQT 057 3 0 X56																
EQT 058 3 0 X53																
EQT 059 3 0 X50-340																
EQT 328 3 0 XXVII4																
EQT 329 3 0 XXXVII5																
EQT 330 3 0 XXXVII8																
EQT 331 3 0 XXXVII9																
FUG 006 3 MISC2		0.63					2.75			0.0003		0.002	0.17		0.76	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
 Activity Number: PER20050022
 Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

Sulfuric acid										Toluene										Xylene (mixed isomers)										Zinc (and compounds)										n-Hexane									
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year																												
EQT 038 3(0)16	19.00				14.19				23.64																																								
EQT 039 3(0)17	19.00				14.19				23.64																																								
EQT 040 3(0)18	19.00				14.19				23.64																																								
EQT 042 3(0)13																																																	
EQT 043 3(0)14																																																	
EQT 044 3(0)15																																																	
EQT 048 3(0)X59																																																	
EQT 051 3(0)X61																																																	
EQT 054 3(0)X55																																																	
EQT 055 3(0)X56																																																	
EQT 057 3(0)X62																																																	
EQT 058 3(0)X63																																																	
EQT 059 3(0)X50-340																																																	
EQT 328 3(0)XXV14																																																	
EQT 329 3(0)XXV15																																																	
EQT 330 3(0)XXV16																																																	
EQT 331 3(0)XXV19																																																	
FUG 006 3(MISC)2																																																	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

- Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

1,3-Butadiene			2,2,4-Trimethylpentane			Ammonia			Antimony (and compounds)			Benzene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year
GRP 110						9.91		43.40	0.004		0.02		0.42	
GRP 112												0.04		0.18
GRP 113											0.01			0.06

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

Chlorine			Copper (and compounds)			Cumene			Ethyl benzene			Hydrogen sulfide			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
GRP 110			0.004		0.02			0.21		0.91		2.16			9.47
GRP 112									0.04		0.18				
GRP 113	0.02	0.09						0.01		0.03					

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

Lead compounds		Naphthalene				Nickel (and compounds)				Phenol				Polynuclear Aromatic Hydrocarbons			
Subject Item	Avg lb/hr	Max lb/hr	Tons/hr	Avg lb/year	Max lb/hr	Tons/year	Avg lb/hr	Max lb/hr	Tons/year	Avg lb/hr	Max lb/hr	Tons/year	Avg lb/hr	Max lb/hr	Tons/year		
GRP 110	0.01			0.03				0.07		0.33							
GRP 112																	
GRP 113																	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
 Activity Number: PER20050022
 Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

All phases

Sulfuric acid			Toluene			Xylene (mixed isomers)			Zinc (and compounds)			n-Hexane			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
GRP 110	46.50		204.23	0.95		4.14	1.56		6.90	0.03		0.12			
GRP 112				0.04		0.18	0.04			0.18					
GRP 113				0.03		0.14	0.05			0.22					

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,3-Butadiene: 0.27 tons/yr

2,2,4-Trimethylpentane: 0.12 tons/yr

Ammonia: 45.21 tons/yr

Antimony (and compounds): 0.02 tons/yr

Benzene: 6.13 tons/yr

Chlorine: 0.09 tons/yr

Copper (and compounds): 0.02 tons/yr

Cumene: 0.16 tons/yr

Ethyl benzene: 3.51 tons/yr

Hydrogen sulfide: 23.86 tons/yr

Lead compounds: 0.03 tons/yr

n-Hexane: 3.38 tons/yr

Naphthalene: 2.75 tons/yr

Nickel (and compounds): 0.34 tons/yr

Phenol: 0.002 tons/yr

Polynuclear Aromatic Hydrocarbons: 0.76 tons/yr

Sulfuric acid: 204.23 tons/yr

Toluene: 12.69 tons/yr

Xylene (mixed isomers): 21.63 tons/yr

Zinc (and compounds): 0.13 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT027

3(I)4 - A Cat Steam Superheater Furnace, B-2

- 1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 2 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT028

3(I)7 - A Cat Feed Preheat Furnace, B-6

- 3 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 4 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 5 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services [LAC 33:III.501.C.6]
- 6 Conduct a performance/emissions test: Due by November 30, 2006 or within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 7 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT029

3(I)5 - B Cat Steam Superheater Furnace, B-2

- 8 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 9 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT030

3(I)8 - B Cat Feed Preheat Furnace, B-6

- 10 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 11 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT031

3(I)6 - C Cat Steam Superheater Furnace, B-2

SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
Activity Number: PER20050022
Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT031

3(II)6 - C Cat Steam Superheater Furnace, B-2

- 12 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 13 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT032

3(II)9 - C Cat Feed Preheat Furnace, B-6

- 14 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 15 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 16 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 17 Conduct a performance/emissions test: Due by November 30, 2006 or within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 18 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT033

3(XVI)3 - BLCOH Reactor Charge Heater, B-3

- 19 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 20 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT034

- 21 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 22 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT035

3(XIX)1 - Cat Feed Hydrotreater Recycle Hydrogen Furnace, B-101

SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
Activity Number: PER20050022
Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT035

3(XXIX)1 - Cat Feed Hydrotreater Recycle Hydrogen Furnace, B-101

- 23 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 24 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT036

3(XXIX)2 - Cat Feed Hydrotreater Fractionator Feed Heater, B-102

- 25 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 26 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT038

3(l)16 - A Cat - Wet Gas Scrubber

- 27 Sulfur dioxide <= 2000 ppmv Wet Gas Scrubber will meet sulfur dioxide NSPS Subpart J emission limits. Determined by performance test. This emission point becomes an affected source on January 1, 2010. [LAC 33:III.1503.C]
Which Months: All Year Statistical Basis: Three-hour rolling average
- 28 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. 40 CFR Part 51, Appendix P does not require continuous emission monitoring for this source. [LAC 33:II.1511.A]
- 29 Maintain a concentration based limit of SO₂ out of the Wet Gas Scrubber at 50 ppmvd on a 7-day rolling average [LAC 33:III.501.C.6]
- 30 Maintain a concentration based limit of SO₂ out of the Wet Gas Scrubber at 25 ppmvd on a 365-day rolling average basis at 0% oxygen. (Per CITGO's NSR Consent Decree.) [LAC 33:III.501.C.6]
- 31 Opacity monitored by continuous opacity monitor (COM) continuously, opacity reading < 30%. This emission point becomes an affected source on March 31, 2010. Subpart J. [40 CFR 60.105(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 32 Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as provided in 40 CFR 60.105(a)(2)(i). This emission point becomes an affected source on January 1, 2006. Subpart J. [40 CFR 60.105(a)(2)]
- 33 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. This emission point becomes an affected source on January 1, 2010. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: None specified
- 34 NESHPAP Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. The catalytic Cracking Units listed within this subpart. Extension received from LDEQ on 4/22/04 modifying compliance date to 4/11/2006. [40 CFR 63.1560]

EQT039

3(l)17 - B Cat - Wet Gas Scrubber

SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT039 3(II)17 - B Cat - Wet Gas Scrubber

35 Sulfur dioxide <= 2000 ppmv Wet Gas Scrubber will meet sulfur dioxide NSPS Subpart J emission limits. This emission point becomes an affected source on December 31, 2006. [LAC 33:III.1503.C]

Which Months: All Year Statistical Basis: Three-hour rolling average

36 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. 40 CFR Part 51, Appendix P does not require continuous emission monitoring for this source. [LAC 33:III.1511.A]

Which Months: All Year Statistical Basis: None specified

37 Maintain a concentration based limit of SO2 out of the Wet Gas Scrubber at 50 ppmvd on a 7-day rolling average basis at 0% oxygen. (Per CITGO's NSR Consent Decree.). [LAC 33:III.501.C.6]

38 Maintain a concentration based limit of SO2 out of the Wet Gas Scrubber at 25 ppmvd on a 365-day rolling average basis at 0% oxygen. (Per CITGO's NSR Consent Decree.). [LAC 33:III.501.C.6]

39 Opacity monitored by continuous opacity monitor (COM) continuously, opacity reading < 30%. This emission point becomes an affected source on December 31, 2006. Subpart J. [40 CFR 60.105(a)(1)]

Which Months: All Year Statistical Basis: None specified

40 Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as provided in 40 CFR 60.105(a)(2)(ii). This emission point becomes an affected source on April 1, 2006. Subpart J. [40 CFR 60.105(a)(2)]

Which Months: All Year Statistical Basis: None specified

41 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. This emission point becomes an affected source on December 31, 2006. Subpart J. [40 CFR 60.105(a)(9)]

Which Months: All Year Statistical Basis: None specified

42 NESHAP Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. The catalytic Cracking Units listed within this permit shall comply with this subpart. Extension received from LDEQ on 4/22/04 modifying compliance date to 4/11/2006. [40 CFR 63.1560]

EQT040 3(II)18 - C Cat - Wet Gas Scrubber

43 Sulfur dioxide <= 2000 ppmv Wet Gas Scrubber will meet sulfur dioxide NSPS Subpart J emission limits. This emission point becomes an affected source on December 31, 2007. [LAC 33:III.1503.C]

Which Months: All Year Statistical Basis: Three-hour rolling average

44 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. 40 CFR Part 51, Appendix P does not require continuous emission monitoring for this source. [LAC 33:III.1511.A]

Which Months: All Year Statistical Basis: None specified

45 Maintain a concentration based limit of SO2 out of the Wet Gas Scrubber at 50 ppmvd on a 7-day rolling average basis at 0% oxygen. (Per CITGO's NSR Consent Decree.). [LAC 33:III.501.C.6]

46 Maintain a concentration based limit of SO2 out of the Wet Gas Scrubber at 25 ppmvd on a 365-day rolling average basis at 0% oxygen. (Per CITGO's NSR Consent Decree.). [LAC 33:III.501.C.6]

47 Opacity monitored by continuous opacity monitor (COM) continuously, opacity reading < 30%. This emission point becomes an affected source on December 31, 2007. Subpart J. [40 CFR 60.105(a)(1)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT040 3(II)18 - C Cat - Wet Gas Scrubber

48 Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as provided in 40 CFR 60.105(a)(2)(ii). This emission point becomes an affected source on March 1, 2006. Subpart J. [40 CFR 60.105(a)(2)]
Which Months: All Year Statistical Basis: None specified
49 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. This emission point becomes an affected source on December 31, 2007. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: None specified

50 NESHPAP Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. The catalytic Cracking Units listed within this permit shall comply with this subpart. Extension received from LDEQ on 4/22/04 modifying compliance date to 4/11/2006. [40 CFR 63.1560]

EQT042 3(II)13 - A Cat F-1 Vent (FCC Area)

51 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
52 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

EQT043 3(II)14 - B Cat F-1 Vent (FCC Area)

53 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
54 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

EQT044 3(II)15 - C Cat F-1 Vent (FCC Area)

55 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
56 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

EQT048 3(IX)59 - Purge Treatment Unit - Wash Water Tank, T-824

57 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. Controls are not required if the true vapor pressure of tank contents is less than 1.5 psia. STATE ONLY. [LAC 33:III.5109.A]

EQT051 3(X)61 - Purge Treatment Unit - Scrubber Makeup Tank, F-321

SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT051 3(IX)61 - Purge Treatment Unit - Scrubber Makeup Tank, F-321

58 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. Controls are not required if the true vapor pressure of tank contents is less than 1.5 psia. STATE ONLY. [LAC 33:III.5109.A]

EQT054 3(IX)55 - Purge Treatment Unit - Clarifier, L800A

59 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. Controls are not required if the true vapor pressure of tank contents is less than 1.5 psia. STATE ONLY. [LAC 33:III.5109.A]

EQT055 3(IX)56 - Purge Treatment Unit - Clarifier, L800B

60 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. Controls are not required if the true vapor pressure of tank contents is less than 1.5 psia. STATE ONLY. [LAC 33:III.5109.A]

EQT057 3(IX)62 - Purge Treatment Unit - Cooling Tower, CT-817A

61 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. STATE ONLY. [LAC 33:III.5109.A]

EQT058 3(IX)63 - Purge Treatment Unit - Cooling Tower, CT-817B

62 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. STATE ONLY. [LAC 33:III.5109.A]

EQT059 3(IX)50-340 - Tank 340 Storm Water Tank

63 VOC, Total > 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.2]
Which Months: All Year Statistical Basis: None specified

64 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

65 Filling of Gasoline Storage Vessels - LAC 33:III.2131 - Equip storage vessels with submerged fill pipe, and process displaced vapor emissions from submerge filling by a vapor recovery system which has 90% reduction efficiency. [LAC 33:III.2131.A]

66 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. STATE ONLY. [LAC 33:III.5109.A]

67 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113(b)(4) (i) and (ii) except as specified in 40 CFR 60.113(b)(4)(iii). Subpart Kb. [40 CFR 60.113(b)(4)]

68 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113(b)(6)(i)]

SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT059

3(I(X))50-340 - Tank 340 Storm Water Tank

69 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113(b)(6)]

Which Months: All Year Statistical Basis: None specified

70 Submit a report. Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]

71 Submit a report. Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(4) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]

72 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

73 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 63.123 of 40 CFR 63 Subpart G, except as specified in 40 CFR 63.654(i)(1) through i)(1)(iv). Subpart CC. [40 CFR 63.654(i)(1)]

EQT320

3(XXXIV)7 - 101 - Furnace B-101

74 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

75 Use ultra low NO_x burners to limit NO_x emissions to 0.04 lb/MM Btu heat input. Good design, proper operation practices, and use clean, low sulfur (NPSPS Part 60 Subpart J) gaseous fuels. [LAC 33:III.509 40 CFR 52]

76 The New Source Performance Standard (NSPS) for Petroleum Refineries, 40 CFR Part 60, Subpart J, prohibits any affected fuel gas combustion device, including a flare, built or modified after June 11, 1973 from combusting any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 g/dscd). [40 CFR 60.104(a)(1)]

77 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]

Which Months: All Year Statistical Basis: Three-hour rolling average

EQT321

3(XXXIV)7 - 102 - Furnace B-102

78 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

79 Use ultra low NO_x burners to limit NO_x emissions to 0.04 lb/MM Btu heat input. Good design, proper operation practices, and use clean, low sulfur (NPSPS Part 60 Subpart J) gaseous fuels. [LAC 33:III.509 40 CFR 52]

80 The New Source Performance Standard (NSPS) for Petroleum Refineries, 40 CFR Part 60, Subpart J, prohibits any affected fuel gas combustion device, including a flare, built or modified after June 11, 1973 from combusting any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 g/dscd). [40 CFR 60.104(a)(1)]

81 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]

Which Months: All Year Statistical Basis: Three-hour rolling average

EQT322

3(XXXIV)7 - 103 - Reb boiler B-103

SPECIFIC REQUIREMENTS

All ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT322 3(XXXXIV)7 - 103 - Reboller B-103

- 82 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 83 Use ultra low NOx burners to limit NOx emissions to 0.04 lb/MM Btu heat input. Good design, proper operation practices, and use clean, low sulfur (NPSPS Part 60 Subpart J)
gaseous fuels. [LAC 33:III.509, 40 CFR 52]
- 84 The New Source Performance Standard (NPSPS) for Petroleum Refineries, 40 CFR Part 60, Subpart J, prohibits any affected fuel gas combustion device, including a flare, built or modified after June 11, 1973 from combusting any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 g/dscf). [40 CFR 60.104(a)(1)]
- 85 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT323 3(XXXXIV)7 - 201 - Furnace B-201

- 86 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 87 Use ultra low NOx burners to limit NOx emissions to 0.04 lb/MM Btu heat input. Good design, proper operation practices, and use clean, low sulfur (NPSPS Part 60 Subpart J)
gaseous fuels. [LAC 33:III.509, 40 CFR 52]
- 88 The New Source Performance Standard (NPSPS) for Petroleum Refineries, 40 CFR Part 60, Subpart J, prohibits any affected fuel gas combustion device, including a flare, built or modified after June 11, 1973 from combusting any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 g/dscf). [40 CFR 60.104(a)(1)]
- 89 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT323 3(XXXXIV)7 - 202 - Furnace B-202

- 90 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 91 Use ultra low NOx burners to limit NOx emissions to 0.04 lb/MM Btu heat input. Good design, proper operation practices, and use clean, low sulfur (NPSPS Part 60 Subpart J)
gaseous fuels. [LAC 33:III.509, 40 CFR 52]
- 92 The New Source Performance Standard (NPSPS) for Petroleum Refineries, 40 CFR Part 60, Subpart J, prohibits any affected fuel gas combustion device, including a flare, built or modified after June 11, 1973 from combusting any fuel gas that contains hydrogen sulfide in excess of 230 mg/dscm (0.10 g/dscf). [40 CFR 60.104(a)(1)]
- 93 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
Which Months: All Year Statistical Basis: Three-hour rolling average

EQT325 3(XXXXIV)7 - 203 - Reboller B-203

- 94 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 95 Use ultra low NOx burners to limit NOx emissions to 0.04 lb/MM Btu heat input. Good design, proper operation practices, and use clean, low sulfur (NPSPS Part 60 Subpart J)
gaseous fuels. [LAC 33:III.509, 40 CFR 52]

SPECIFIC REQUIREMENTS

All ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

EQT325 3(XXXIV)7 - 203 - Reboiler B-203

- 96 The New Source Performance Standard (NSPS) for Petroleum Refineries, 40 CFR Part 60, Subpart J, prohibits any affected fuel gas combustion device, including a flare, built or modified after June 11, 1973 from combusting any fuel gas that contains hydrogen sulfide in excess of 2.30 mg/dscm (0.10 g/dscf). [40 CFR 60.104(a)(1)]
- 97 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(9)]
- Which Months: All Year Statistical Basis: Three-hour rolling average

EQT328 3(XXXIV)14 - Lean Amine Drum Vent F-114

- 98 Emissions shall be controlled by carbon canister with 95% efficiency. [LAC 33:III.509, 40 CFR 52]

EQT329 3(XXXIV)15 - Lean Amine Drum Vent F-214

- 99 Emissions shall be controlled by carbon canister with 95% efficiency. [LAC 33:III.509, 40 CFR 52]

EQT330 3(XXXIV)18 - Oily Water Collection Sump Vent S-101

- 100 VOC emissions are greater than 100 pounds per 24 hour period. Shall be controlled by carbon canister meeting control requirements of LAC 33:III.2115.B. [LAC 33:III.2115]
- 101 Emissions shall be controlled by carbon canister with 98% efficiency. [LAC 33:III.5109.A]
- 102 Control vent and control system for oil water collection sump vents will comply with applicable requirements of 40 CFR 61 Subpart FF. [40 CFR 61.342]
- 103 Compliance with NESHPAP, Subpart FF demonstrates compliance with NESHPAP, Subpart CC. [40 CFR 63.640]

EQT331 3(XXXIV)19 - Oily Water Collection Sump Vent S-201

- 104 VOC emissions are greater than 100 pounds per 24 hour period. Shall be controlled by carbon canister meeting control requirements of LAC 33:III.2115.B. [LAC 33:III.2115]
- 105 Emissions shall be controlled by carbon canister with 98% efficiency. [LAC 33:III.5109.A]
- 106 Control vent and control system for oil water collection sump vents will comply with applicable requirements of 40 CFR 61 Subpart FF. [40 CFR 61.342]
- 107 Compliance with NESHPAP, Subpart FF demonstrates compliance with NESHPAP, Subpart CC. [40 CFR 63.640]

FUG006 3(MISC)2 - CAT Area Fugitives

- 108 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:II.2111]
- 109 Repair according to LAC 33:III.2122.C.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration, except those covered under LAC 33:III.2122.C.1.d. [LAC 33:III.2122.C.1.c]
- 110 Pumps and valves in heavy liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days if observed leaking by sight, sound, or smell. Repair according to LAC 33:III.2122.C.3 if the pump or valve is determined to be leaking in excess of the applicable limits given in LAC 33:III.2122. [LAC 33:III.2122.C.1.d]
- Which Months: All Year Statistical Basis: None specified
- 111 Do not locate any valve, except safety pressure relief valves, at the end of a pipe or line containing volatile organic compounds unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device. [LAC 33:III.2122.C.2]
- 112 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2122, within 15 days, except as provided. [LAC 33:III.2122.C.3]

SPECIFIC REQUIREMENTS

All ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
Activity Number: PER20050022
Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

FUG006 3(MISC)2 - CAT Area Fugitives

- 113 Determine the percent of leaking components at a process unit for a test period using the equation in LAC 33:III.2122.C.4. [LAC 33:III.2122.C.4]
- 114 Determine the total percent of leaking and unrepairable components using the equation in LAC 33:III.2122.C.5. [LAC 33:III.2122.C.5]
- 115 Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.a]
Which Months: All Year Statistical Basis: Annual average
- 116 Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.i]
Which Months: All Year Statistical Basis: Quarterly average
- 117 Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.ii]
Which Months: All Year Statistical Basis: Quarterly average
- 118 Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions). [LAC 33:III.2122.D.1.b.iii]
Which Months: All Year Statistical Basis: Quarterly average
- 119 Pumps in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.iv]
Which Months: All Year Statistical Basis: Quarterly average
- 120 Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions). [LAC 33:III.2122.D.1.b.v]
Which Months: All Year Statistical Basis: Quarterly average
- 121 Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times a year). [LAC 33:III.2122.D.1.c]
Which Months: All Year Statistical Basis: Weekly average
- 122 Flanged connectors: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.d.i]
Which Months: All Year Statistical Basis: Weekly average
- 123 Instrumentation systems: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.e]
Which Months: All Year Statistical Basis: Weekly average
- 124 Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 1,000 ppmv or greater (for petroleum refineries, SOCOMI, MTBE, and polymer manufacturing industry) or 2,500 ppmv or greater (for natural gas processing plants) is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.a]
Which Months: All Year Statistical Basis: None specified
- 125 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.b]
Which Months: All Year Statistical Basis: None specified
- 126 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum). [LAC 33:III.2122.D.3.c]
Which Months: All Year Statistical Basis: Annual average

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- 127 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely. [LAC 33:III.2122.D.3.d]
- Which Months: All Year Statistical Basis: None specified
- 128 When a component which has a leak that cannot be repaired, as described in LAC 33:III.2122.C, is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Remove the tag after the leak has been repaired. [LAC 33:III.2122.F.1]
- 129 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2122.F.2.a through j. Retain the survey log for two years after the latter date specified in LAC 33:III.2122.F.2 and make said log available to DEQ upon request. [LAC 33:III.2122.F]
- 130 Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology Division. Include the information specified in LAC 33:III.2122.G.1 through 6 for each calendar quarter during the reporting period. [LAC 33:III.2122.G]
- 131 LAC 33:III.2122: Compliance is achieved by compliance with Louisiana Fugitive Emission Program Consolidation Guidelines. See the Part 70 Specific Condition in Appendix A. [LAC 33:III.2122]
- 132 40 CFR 60 Subpart VV: Compliance is achieved by compliance with Louisiana Fugitive Emission Program Consolidation Guidelines. See the Part 70 Specific Condition in Appendix A. [LAC 33:III.501.C.6]
- 133 Streamlined program shall be applicable to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size or component available in any of the programs being streamlined. [LAC 33:III.501.C.6]
- 134 A random of two hundred connectors (or 10% whichever is less), shall be monitored each year. The connector population shall consist of all one inch and larger connectors in gas/vapor or light liquid service. For process units with LDAR programs consolidated to the LAMACT, the connector population shall include all valve end flanges for those valves in gas/vapor or light VOC service. [LAC 33:III.501.C.6]
- 135 Pressure relief device in gas/vapor service: VOTAP < 500 ppm except during pressure releases, as measured by the method specified in Section P.3, as specified in Subsection F.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 136 Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily. Check sensor daily or equip with an audible alarm, as specified in Subparagraph D.4.e.i of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in Paragraph D.4.e.ii, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 137 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (have been welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P or by testing using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Use method approved under the Air Compliance Plan. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 138 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, monitor within 5 days. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified

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- 139 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. [LAC 33:III.5109.A]
Which Months: All Year Statistical Basis: None specified
- 140 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency, as specified in Subparagraph D.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor pump as often as practicable and at least monthly. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 141 VOTAP monitored by technically sound method at the regulation's specified frequency. Monitor equipment that has been physically removed from service, disassembled or dismantled in the next scheduled monitoring period or within 1 year of placing back in service, whichever occurs first, to determine if it is leaking, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 142 Pumps in light liquid service: VOTAP monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 2000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 143 Compressors (seal system): VOTAP monitored by the regulation's specified method(s) quarterly, as specified in Subsection E. 1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor to detect leaks using the methods specified in Section P. If an instrument reading of 5000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E. 8. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 144 Compressors (no detectable emissions): VOTAP monitored by the regulation's specified method(s) once initially upon designation, annually, and at other times requested by DEQ, as specified in Paragraph E.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 145 Pressure relief device in gas/vapor service: VOTAP monitored by the regulation's specified method(s) within 5 days (calendar) after the pressure release to confirm the condition of no leakage, as indicated by an instrument reading of less than 500 ppm above background, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 146 Valves in gas/vapor service and in light liquid service: VOTAP monitored by the regulation's specified method(s) quarterly, as specified in Subsection I.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 1000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection I.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 147 Valves in gas/vapor service and in light liquid service (percent leaking valves ≥ 4): VOTAP monitored by the regulation's specified method(s) monthly, as specified in Subsection I.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Monthly monitoring must be initiated within 60 days of the previous monitoring and must continue until the percent of leaking valves is less than 4, at which time monitoring can be performed in accordance with Subsection I.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified

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- 148 Valves in gas/vapor service and in light liquid service (percent leaking valves ≤ 2 for two consecutive quarterly leak detection periods): VOTAP monitored by the regulation's specified method(s) semiannually, as specified in Paragraph J.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
Which Months: All Year Statistical Basis: None specified
- 149 Valves in gas/vapor service and in light liquid service (percent leaking valves ≤ 2 for two consecutive semiannual leak detection periods): VOTAP monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
Which Months: All Year Statistical Basis: None specified
- 150 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOTAP monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, as specified in Subsection I.5.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. [LAC 33:III.5109.A]
Which Months: All Year Statistical Basis: None specified
- 151 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOTAP monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve at least once per calendar year, as specified in Subsection I.6.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. [LAC 33:III.5109.A]
Which Months: All Year Statistical Basis: None specified
- 152 Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service.: VOTAP monitored by the regulation's specified method(s) within 5 days of finding evidence of a potential leak by visual, audible, olfactory, or any other detection method, as specified in Subsection K.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 2000 ppm or greater for pumps or 1000 ppm or greater for valves, connectors, instrument systems, or pressure relief devices is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection K.3. [LAC 33:III.5109.A]
Which Months: All Year Statistical Basis: None specified
- 153 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: VOTAP monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If an instrument reading ≥ 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33:III.5109.A]
Which Months: All Year Statistical Basis: None specified
- 154 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors ≤ 2): VOTAP monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If an instrument reading ≥ 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33:III.5109.A]
Which Months: All Year Statistical Basis: None specified

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155 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors $>$ 2): VOTAP monitored by the regulations specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P. If an instrument reading \geq 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

156 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOTAP monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor for leaks after being returned to VOTAP service during the next scheduled monitoring period, as specified in Paragraph O.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the follow-up monitoring detects a leak, initiate repair provisions specified in Subsection O.9, unless it is determined to be unrepairable, in which case it is counted as unrepairable. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

157 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOTAP monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

158 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

159 VOTAP recordkeeping by manual logging at the regulation's specified frequency. Maintain a record of the monitoring in the log required in Subsection Q.5, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

160 Leak definitions and monitoring frequency shall be based on the overall most stringent program. Percent leaker shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Permittee shall comply with the recordkeeping and reporting requirements of the overall stringent program. Reporting shall be semiannual and shall include any monitoring performed within the reporting period. [LAC 33:III.5109.A]

161 Identify each piece of equipment in a process unit subject to this MACT determination such that it can be distinguished readily from equipment that is not subject to this MACT determination, as specified in Subsection C.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

162 Pumps in light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection D.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]

163 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

164 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in VOTAP service and, if the pump is covered by standards under NSPS, is not in VOC service, as specified in Paragraph D.4.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

165 Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

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- 166 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Subparagraph D.4.e.ii of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 167 Compressors: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection E.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]
- 168 Compressors (no detectable emissions): Demonstrate that the compressor is operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Subsection P.3, as specified in Paragraph E.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 169 Pressure relief device in gas/vapor service: After each pressure release, return to a condition of no leakage, as indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than five calendar days after each pressure release, except as provided in Section M, as specified in Section F.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 170 Sampling connection systems: Equip with a closed-purge system or closed-vent system, except as provided for in Section C, as specified in Subsection G.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Ensure that this system collects or captures the sample purge for return to the process. [LAC 33:III.5109.A]
- 171 Sampling connection systems (closed-purge or closed-vent system): Return the purged process fluid directly to the process line with zero VOTAP emissions to the atmosphere, or collect and recycle the purged process fluid with zero VOTAP emissions to the atmosphere, or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Section N, as specified in Subsection G.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 172 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line or during maintenance and repair, as specified in Subsection H.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 173 Open-ended valves or lines (equipped with a second valve): Operate in a manner such that the valve on the process fluid end is closed before the second valve is closed, as specified in Subsection H.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 174 Open-ended valves or lines: Monitor and repair in accordance with Section I, as specified in Subsection H.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 175 Valves in gas/vapor service and in light liquid service (using skip period leak detection and repair): Notify DEQ at least 30 days before implementing one of the alternate monitoring in Section J, as specified in Paragraph J.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 176 Valves in gas/vapor service and in light liquid service: Repair leaks as soon as practicable, but no later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection I.3 and I.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]
- 177 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Subsection I.1, as specified in Subsection I.5.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 178 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than two meters above a support service, as specified in Subsection I.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

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- 179 Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service. Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M_i, as specified in Subsection K.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]
- 180 Surge control vessels and bottoms receivers: Equip each surge control vessel and bottoms receiver that is not routed back to the process with a closed-vent system that routes the organic vapors vented from the vessel back to the process or to a control device that complies with the requirements of Section N or to an alternate method of control which has been approved by DEQ, as specified in Section L of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 181 Connectors in gas/vapor service and in light liquid service => one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 182 Connectors in gas/vapor service and in light liquid service => one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 183 Connectors in gas/vapor service and in light liquid service => one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means, except as specified in Subsection O.8, as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 184 Connectors in gas/vapor service and in light liquid service => one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 185 Comply with the test methods and procedures in Section P, as specified in Subsections P.1 through P.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 186 Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 187 Submit statement: Due in writing by 90 days after approval of the Compliance Plan/Certificate of Compliance. Submit the information specified in Subsections R.1 and R.3, as specified in Subsections R.1 and R.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 188 Submit report: Due quarterly starting three months after the initial report required in Subsection R.1. Include the information specified in Paragraphs R.2.a through R.2.e, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 189 Valves in gas/vapor service and in light liquid service (skip period leak detection and repair): Notify DEQ 30 days before implementing any of the alternate provisions of Section J, as specified in Subsection R.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 190 Comprehensive Toxic Air Pollutant Program - Requires installation of MACT for Class I and II LTAPs above MER and compliance with AAS for Class I, II, and III LTAPs.
- MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. [LAC 33:III.5109]
- 191 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 192 NSPS Subpart GGG - Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries. All affected facilities includes compressor and group equipment defined in 40 CFR 60.591, that were constructed, modified or reconstructed after January 4, 1983. Emissions must comply with 40 CFR 60.482-1 to 40 CFR 60.482-10. Requirements are provided for leak detection and repair. Facility will comply with more stringent consolidation program (LA MACT for Refineries). [40 CFR 60.590-593]

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- 193 Equip each drain with water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(1)]
- 194 Equipment/operational data monitored by visual inspection/determination once initially and monthly thereafter. Monitor drains in active service for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 195 Equipment/operational data monitored by visual inspection/determination once initially and weekly thereafter. Monitor drains out of active service for indications of low water levels or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(a)(3)]
Which Months: All Year Statistical Basis: None specified
- 196 Equipment/operational data monitored by technically sound method once initially and semiannually thereafter. Monitor the tightly sealed cap or plug over a drain that is out of service to ensure cap or plug are in place and properly installed. Subpart QQQ. [40 CFR 60.692-2(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 197 Add water or make first attempts at repair as soon as practicable, but not later than 24 hours after low water levels or missing or improperly installed caps or plugs are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(a)(5)]
- 198 Junction boxes: Equip with a cover. Ensure vent pipes are at least 90 cm (3 ft) in length and do not exceed 10.2 cm (4 in) in diameter. Subpart QQQ. [40 CFR 60.692-2(b)(1)]
- 199 Junction boxes: Cover must have a tight seal around the edge and be kept in place at all times, except during inspection and maintenance. Subpart QQQ. [40 CFR 60.692-2(b)(2)]
- 200 Junction boxes: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor to ensure the cover is in place and to ensure that the cover has a tight seal around the edge. Subpart QQQ. [40 CFR 60.692-2(b)(3)]
Which Months: All Year Statistical Basis: None specified
- 201 Junction boxes: Make a first effort at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gap is identified, except as provided in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(b)(4)]
- 202 Sewer lines: Ensure that sewer lines are not open to the atmosphere and are covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. Subpart QQQ. [40 CFR 60.692-2(c)(1)]
- 203 Sewer lines: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor the portion of each unburied sewer line for indication of cracks, gaps, or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(c)(2)]
Which Months: All Year Statistical Basis: None specified
- 204 Sewer lines: Make repairs as soon as practicable, but not later than 15 calendar days after cracks, gaps, or other problems are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(c)(3)]
- 205 Do not route wastewater routed through new drains and a new first common downstream junction box, either as part of a new or existing individual drain system, through a downstream catch basin. Subpart QQQ. [40 CFR 60.692-2(e)]
- 206 Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
- 207 Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]
- 208 Inspection records recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(b)(1) through (b)(3). Subpart QQQ. [40 CFR 60.697(b)]
- 209 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]
- 210 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]

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- 211 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep plans or specifications which indicate the location of out of active service drains covered by tightly sealed caps or plugs for the life of the facility in a readily accessible location. Subpart QQQ. [40 CFR 60.697(b)]
- 212 Submit Notification: Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semiannually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]
- 213 Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
- 214 As part of the waiver application submitted under 40 CFR 61.342(b)(1), the owner or operator shall submit to the DEQ a plan under 40 CFR 61.10(b)(3) that is an enforceable commitment to obtain environmental benefits to mitigate the benzene emissions that result from extending the compliance date. The plan shall include the information specified in 40 CFR 61.342(b)(2)(i-iii). [40 CFR 61.342(b)(2)]
- 215 Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]
- 216 Waste streams containing benzene: Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348. Subpart FF. [40 CFR 61.342(c)(1)(i)]
- 217 Benzene < 1 Mg/yr (1.1 ton/yr) total quantity. Subpart FF. [40 CFR 61.342(d)(2)(i)]
- 218 Which Months: All Year Statistical Basis: None specified
- 219 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 219 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]
- 220 Comply with the provisions of 40 CFR 60 Subpart VV and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a)]
- 221 Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 222 Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

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- 223 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 224 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 225 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305-1-7. [LAC 33:III.1305]
- 226 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A-1-5. [LAC 33:III.2113.A]

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227 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]

228 1,3-Butadiene <= 0.27 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

229 Cumene <= 0.16 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

230 Polynuclear Aromatic Hydrocarbons <= 0.76 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

231 Phenol <= 0.002 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

232 Sulfuric acid <= 204.23 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

233 Chlorine <= 0.09 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

234 Nickel (and compounds) <= 0.34 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

235 Copper (and compounds) <= 0.02 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

236 Lead compounds <= 0.03 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

237 Antimony (and compounds) <= 0.02 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

238 Zinc (and compounds) <= 0.13 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

239 Refinery Process Unit Turnarounds. LAC 33:III.2141, Subpart G. [LAC 33:III.501.C.6]

240 Sulfur dioxide <= 426.68 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

241 Carbon monoxide <= 616.81 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

242 Nitrogen oxides <= 3331.61 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

243 Particulate matter (10 microns or less) <= 482.05 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

244 VOC, Total <= 803.41 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

245 Benzene <= 6.13 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

246 Ethylbenzene <= 3.51 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

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- 247 n-Hexane <= 3.38 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 248 Naphthalene <= 2.75 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 249 Toluene <= 12.69 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 250 Xylene (mixed isomers) <= 21.63 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 251 Ammonia <= 45.21 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 252 Hydrogen sulfide <= 23.86 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 253 2,2,4-Trimethylpentane <= 0.12 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 254 No Part 70 source may operate after the time that the owner or operator of such source is required to submit a permit application under Subsection C of this Section, unless an application has been submitted by the submittal deadline and such application provides information addressing all applicable sections of the application form and has been certified as complete in accordance with LAC 33:III.517.B.1. No Part 70 source may operate after the deadline provided for supplying additional information requested by the permitting authority under LAC 33:III.519, unless such additional information has been submitted within the time specified by the permitting authority. Permits issued to the Part 70 source under this Section shall include the elements required by 40 CFR 70.6. The Louisiana Department of Environmental Quality hereby adopts and incorporates by reference the provisions of 40 CFR 70.6(a), as in effect on July 21, 1992. Upon issuance of the permit, the Part 70 source shall be operated in compliance with all terms and conditions of the permit. Noncompliance with any federally applicable term or condition of the permit shall constitute a violation of the Clean Air Act and shall be grounds for enforcement action, for permit termination, revocation and reissuance, or revision, or for denial of a permit renewal application. [LAC 33:III.507.B.2]
- 255 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51. Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51. Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 256 Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 257 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 258 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III. Chapter 51. Subchapter A. [LAC 33:III.5105.A.4]
- 259 Submit initial annual emissions report (TEDI) to DEQ within 180 days of December 20, 1991. Identify the quantity of emissions of toxic air pollutants listed in Table 51.1 for the calendar year 1991. STATE ONLY. [LAC 33:III.5107.A.1]
- 260 Submit Annual Emissions Report (TEDI). Due annually, by the 1st of July, to the Office of Environmental Assessment, Environmental Evaluation Division in a form specified by the department. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. STATE ONLY. [LAC 33:III.5107.A.2]
- 261 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations." STATE ONLY. [LAC 33:III.5107.A.3]

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- 262 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). STATE ONLY. [LAC 33:III.5107.B.1]
- 263 Submit notification: Due to the Office of Environmental Compliance, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:II.Chapter 51.Table 51.1 or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. STATE ONLY. [LAC 33:III.5107.B.2]
- 264 Submit notification: Due to the Office of Environmental Compliance immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:I.3923. STATE ONLY. [LAC 33:III.5107.B.3]
- 265 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. [Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. STATE ONLY. [LAC 33:III.5107.B.4]
- 266 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. STATE ONLY. [LAC 33:III.5107.B.5]
- 267 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. [LAC 33:III.5109.A]
- 268 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. STATE ONLY. [LAC 33:III.5109.B.3]
- 269 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. STATE ONLY. [LAC 33:III.5109.B]
- 270 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. STATE ONLY. [LAC 33:III.5109.C]
- 271 Obtain Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:I.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 272 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 273 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 274 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 275 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]
- 276 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]

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- 277 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. STATE ONLY. [LAC 33:III.5113.B.3]
- 278 Provide emission testing facilities as specified in LAC 33:III.5113.B.4. a through e. STATE ONLY. [LAC 33:III.5113.B.4]
- 279 Analyze samples and determine emissions within 30 days after each emission test has been completed. STATE ONLY. [LAC 33:III.5113.B.5]
- 280 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. STATE ONLY. [LAC 33:III.5113.B.6]
- 281 Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. STATE ONLY. [LAC 33:III.5113.B.7]
- 282 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. STATE ONLY. [LAC 33:III.5113.C.1]
- 283 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 284 Submit performance evaluation report: Due to the Office of Environmental Assessment, Environmental Technology Division within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 285 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 286 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 287 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 288 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 289 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 290 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 291 Submit plan: Due to the Office of Environmental Assessment, Environmental Technology Division within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 292 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 293 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 294 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7. [LAC 33:III.5609.A]

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- 295 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 296 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 297 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 298 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 299 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division. [LAC 33:III.5911.A]
- 300 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 301 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]
- 302 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 303 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:III.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]
- 304 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 305 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]
- 306 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 307 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 308 Submit report: Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]
- 309 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 310 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 311 Complete the five-year accident history for the process as provided in 68.42. [40 CFR 68.12(b)(2)]
- 312 Ensure that response actions have been coordinated with local emergency planning and response agencies. [40 CFR 68.12(b)(3)]
- 313 Include in the RMP the certification specified in 68.12(d). [40 CFR 68.12(d)]

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- 314 Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999. [40 CFR 68.150]
- 315 Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g). [40 CFR 68.155]
- 316 Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13). [40 CFR 68.160]
- 317 Submit in the RMP information one worst-case release scenario for each Program 1 process. Include the data specified in 68.165(b)(1) through (13). [40 CFR 68.165]
- 318 Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a). [40 CFR 68.168]
- 319 Provide in the RMP the emergency response information listed in 68.180(a) through (c). [40 CFR 68.180]
- 320 Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 321 Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999. [40 CFR 68.190]
- 322 Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided. [40 CFR 68.200]
- 323 Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences. [40 CFR 68.22]
- 324 Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h). [40 CFR 68.25]
- 325 Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e). [40 CFR 68.28]
- 326 Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.30]
- 327 List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.33]
- 328 Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 329 Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36]
- 330 Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release. [40 CFR 68.42]
- 331 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 332 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 333 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]

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- 334 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
335 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. Third party contractor used to maintain equipment. [40 CFR 82,Subpart F]

GRP109

3(l)(1)21 - Furnace Firing Cap

- 336 Nitrogen oxides recordkeeping by electronic or hard copy monthly. Report the total calculated NOx emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
337 VOC, Total Submit report: Due annually, by the 31st of March. Report the total calculated VOC emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
338 Particulate matter (10 microns or less) monitored by calculations monthly. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
339 Carbon monoxide recordkeeping by electronic or hard copy monthly. Report the total calculated CO emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
340 Carbon monoxide Submit report: Due annually, by the 31st of March. Report the total calculated CO emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
341 Carbon monoxide monitored by calculations monthly. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
342 VOC, Total recordkeeping by electronic or hard copy monthly Keep records of the total calculated VOC emissions based on the overall throughput each month as well as the total calculated VOC emissions based on the overall throughput for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
343 Nitrogen oxides Submit report: Due annually, by the 31st of March. Report the total calculated NOx emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
344 Nitrogen oxides monitored by calculations monthly. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
345 Particulate matter (10 microns or less) recordkeeping by electronic or hard copy monthly. Report the total calculated PM10 emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
346 VOC, Total monitored by calculations monthly. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
347 Particulate matter (10 microns or less) Submit report: Due annually, by the 31st of March. Report the total calculated PM10 emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
348 Heat content Submit report: Due annually, by the 31st of March. Report the total calculated heat content based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
349 Heat content recordkeeping by electronic or hard copy monthly. Report the total calculated heat content based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
350 Heat content monitored by calculations monthly. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified

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AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
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GRP109 3(I)(21) - Furnace Firing Cap

351 Carbon monoxide: To demonstrate compliance with the CO emission limit for the source GRP 109 3(I)(21) Furnace Firing Cap, Permittee shall calculate total CO tons for a 12-month rolling period. Total CO for the Furnace Firing in the cap shall not exceed 277.26 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. CO emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Steam Superheater Furnace, B-2, A Cat Steam Superheater Furnace, B-6, B Cat Steam Superheater Furnace, B-2, B Cat Steam Furnace, B-6, C Cat Steam Superheater Furnace, B-2, and C Cat Steam Superheater Furnace, B-6, BLCOH Reactor Charge Heater, B-3; BLCOH Stabilizer Reboiler, B-101; Cat Feed Hydrotreater Recycle Hydrogen Furnace, B-101; and Cat Feed Hydrotreater Fractionator Feed Heater.

CGH Furnaces, B-101 A-CGH; B-102 A-CGH; B-103 A-CGH; B-201 B-CGH; and B-202 B-CGH. [LAC 33:III.501.C.6]

352 Nitrogen oxides: To demonstrate compliance with the NOx emission limit for the source GRP 109 3(I)(21) Furnace Firing Cap, Permittee shall calculate total NOx tons for a 12-month rolling period. Total NOx for the Furnace Firing in the cap shall not exceed 539.10 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. NOx emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Steam Superheater Furnace, B-2, A Cat Steam Superheater Furnace, B-6, B Cat Steam Superheater Furnace, B-2, B Cat Steam Furnace, B-6, C Cat Steam Superheater Furnace, B-2, and C Cat Steam Superheater Furnace, B-6, BLCOH Reactor Charge Heater, B-3; BLCOH Stabilizer Reboiler, B-102

CGH Furnaces, B-101 A-CGH; B-102 A-CGH; B-103 A-CGH; B-201 B-CGH; B-202 B-CGH; and B-203 B-CGH. [LAC 33:III.501.C.6]

353 Particulate matter (10 microns or less): To demonstrate compliance with the PM10 emission limit for the source GRP 109 3(I)(21) Furnace Firing Cap, Permittee shall calculate total PM10 tons for a 12-month rolling period. Total PM10 for the Furnace Firing in the cap shall not exceed 25.48 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. PM10 emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Steam Superheater Furnace, B-2, A Cat Steam Superheater Furnace, B-6, B Cat Steam Superheater Furnace, B-2, B Cat Steam Furnace, B-6, C Cat Steam Superheater Furnace, B-2, and C Cat Steam Superheater Furnace, B-6, BLCOH Reactor Charge Heater, B-3; BLCOH Stabilizer Reboiler, B-102

CGH Furnaces, B-101 A-CGH; B-102 A-CGH; B-103 A-CGH; B-201 B-CGH; and B-203 B-CGH. [LAC 33:III.501.C.6]

354 VOC, Total: To demonstrate compliance with the VOC emission limit for the source GRP 109 3(I)(21) Furnace Firing Cap, Permittee shall calculate total VOC tons for a 12-month rolling period. Total VOC for the Furnace Firing in the cap shall not exceed 22.36 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. VOC emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Steam Superheater Furnace, B-2, A Cat Steam Superheater Furnace, B-6, B Cat Steam Superheater Furnace, B-2, B Cat Steam Furnace, B-6, C Cat Steam Superheater Furnace, B-2, and C Cat Steam Superheater Furnace, B-6, BLCOH Reactor Charge Heater, B-3; BLCOH Stabilizer Reboiler, B-101; Cat Feed Hydrotreater Recycle Hydrogen Furnace, B-101; and Cat Feed Hydrotreater Fractionator Feed Heater, B-102

CGH Furnaces, B-101 A-CGH; B-102 A-CGH; B-103 A-CGH; B-201 B-CGH; and B-203 B-CGH. [LAC 33:III.501.C.6]

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AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex

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GRP109 3(I)(21 - Furnace Firing Cap

355 Sulfur dioxide: To demonstrate compliance with the SO₂ emission limit for the source GRP 109 109 3(I)(21 Furnace Firing Cap, Permittee shall calculate total SO₂ tons for a 12-month rolling period. SO₂ for the Wet Gas Scrubbers in the cap shall not exceed 149.16 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. SO₂ emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Steam Superheater Furnace, B-2, A Cat Steam Superheater Furnace, B-6, B Cat Steam Superheater Furnace, B-2, B Cat Steam Furnace, B-6, C Cat Steam Superheater Furnace, B-2, and C Cat Steam Superheater Furnace, B-6, BLCOH Reactor Charge Heater, B-3; BLCOH Stabilizer Reboiler, B-101; Cat Feed Hydrotreater Recycle Hydrogen Furnace, B-101; and Cat Feed Hydrotreater Fractionator Feed Heater, B-102

CGH Furnaces, B-101 A-CGH; B-102 A-CGH; B-103 A-CGH; B-201 B-CGH; B-202 B-CGH; and B-203 B-CGH. [LAC 33:III.501.C.6]

356 Heat content <=8,477,665 MM BTU/yr.

Which Months: All year Statistical Basis: Annual maximum. [LAC 33:III.501.C.6]

GRP110 3(I)(20 - Cap for Wet Gas Scrubber

357 VOC, Total monitored by calculations monthly. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

358 VOC, Total recordkeeping by electronic or hard copy monthly Keep records of the total calculated VOC emissions based on the overall throughput each month as well as the total calculated VOC emissions based on the overall throughput for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

359 VOC, Total Submit report: Due annually, by the 31st of March. Report the total calculated VOC emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

360 Carbon monoxide monitored by calculations monthly. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

361 Carbon monoxide recordkeeping by electronic or hard copy monthly. Report the total calculated CO emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

362 Carbon monoxide Submit report: Due annually, by the 31st of March. Report the total calculated CO emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

363 Nitrogen oxides monitored by calculations monthly. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

364 Nitrogen oxides recordkeeping by electronic or hard copy monthly. Report the total calculated NO_x emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

365 Nitrogen oxides Submit report: Due annually, by the 31st of March. Report the total calculated NO_x emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

366 Particulate matter (10 microns or less) monitored by calculations monthly. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

367 Particulate matter (10 microns or less) recordkeeping by electronic or hard copy monthly. Report the total calculated PM10 emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

368 Particulate matter (10 microns or less) Submit report: Due annually, by the 31st of March. Report the total calculated PM10 emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

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GRP110 3(I)20 - Cap for Wet Gas Scrubber

369 Sulfur dioxide: To demonstrate compliance with the SO₂ emission limit for the source GRP 110 3(I)20 Cap for Wet Gas Scrubbers, Permittee shall calculate total SO₂ tons for a 12-month rolling period. SO₂ for the Wet Gas Scrubbers in the cap shall not exceed 277.52 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. SO₂ emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Surveillance Division. Emission points: A Cat Wet Gas Scrubber, B Cat Wet Gas Scrubber, and C Cat Gas Wet Scrubber. [LAC 33:III.501.C.6]

370 Carbon monoxide: To demonstrate compliance with the CO emission limit for the source GRP 110 3(I)20 Cap for Wet Gas Scrubbers, Permittee shall calculate total CO tons for a 12-month rolling period. Total CO for the Wet Gas Scrubbers in the cap shall not exceed 339.55 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. CO emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Wet Gas Scrubber, B Cat Wet Gas Scrubber, and C Cat Gas Wet Scrubber. [LAC 33:III.501.C.6]

371 Nitrogen oxides: To demonstrate compliance with the NO_x emission limit for the source GRP 110 3(I)20 Cap for Wet Gas Scrubbers, Permittee shall calculate total NO_x tons for a 12-month rolling period. Total NO_x for the Wet Gas Scrubbers in the cap shall not exceed 2792.51 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. NO_x emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Wet Gas Scrubber, B Cat Wet Gas Scrubber, and C Cat Gas Wet Scrubber. [LAC 33:III.501.C.6]

372 Particulate matter (10 microns or less): To demonstrate compliance with the PM10 emission limit for the source GRP 110 3(I)20 Cap for Wet Gas Scrubbers, Permittee shall calculate total PM10 tons for a 12-month rolling period. Total PM10 for the Wet Gas Scrubbers in the cap shall not exceed 439.20 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. PM10 emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Wet Gas Scrubber, B Cat Wet Gas Scrubber, and C Cat Gas Wet Scrubber. [LAC 33:III.501.C.6]

373 VOC, Total: To demonstrate compliance with the VOC emission limit for the source GRP 110 3(I)20 Cap for Wet Gas Scrubbers, Permittee shall calculate total VOC tons for a 12-month rolling period. Total VOC for the Wet Gas Scrubbers in the cap shall not exceed 27.62 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. VOC emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: A Cat Wet Gas Scrubber, B Cat Wet Gas Scrubber, and C Cat Gas Wet Scrubber. [LAC 33:III.501.C.6]

374 To maintain NO_x and CO emission increases from this project below the PSD significance level of 40 tons per year and 100 tons per year respectively, permittee shall install and properly maintain a continuous monitoring system to measure NO_x and CO emissions from the Wet Gas Scrubbers (Emission Point 3(I)16, 3(I)17 and 3(I)18). A performance test for NO_x and CO emissions from the Wet Gas Scrubbers (Emission Point 3(I)16, 3(I)17 and 3(I)18) shall be conducted using test methods from the New Source Performance Standards, 40 CFR 60, Appendix A Method 7E - Determination of Nitrogen Oxide Emissions from Stationary Sources and Method 10 - Determination of Carbon monoxide Emissions from Stationary Sources. Permittee shall conduct a Relative Accuracy Test Audit annually per the procedures of 40 CFR 60, Appendix F, A 12 month rolling average emission calculation shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. The NO_x and CO emission rate above the permit limit for any twelve consecutive month periods shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

375 Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits. [LAC 33:III.913]
376 Use the procedures in 40 CFR 60.105(a)(12)(i) and (ii) to evaluate the continuous monitoring systems under 40 CFR 60.105(a)(8), (a)(9), and (a)(10), per schedule. Sub part J. [40 CFR 60.105(a)(12)]

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GRP110 3(I)(20 - Cap for Wet Gas Scrubber

377 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8, per schedule. Subpart J. [40 CFR 60.106(a)]

378 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k), per schedule. Subpart J. [40 CFR 60.106]

379 Submit Notification: Due with the notification of initial startup required by 40 CFR 60.7(a)(3). Notify DEQ of the specific provisions of 40 CFR 60.104(b) with which seeking to comply, per schedule. Subpart J. [40 CFR 60.107(a)]

380 Submit exceedance report: Due semiannually, except as specified in 40 CFR 60.107(d). Include the information specified in 40 CFR 60.107(c)(1) through (c)(6), per schedule. Subpart J. [40 CFR 60.107(c)]

381 After conducting the initial performance test prescribed under 40 CFR 60.8, conduct a performance test for each successive 24-hour period thereafter, according to the appropriate procedures specified under 40 CFR 60.106, per schedule. Subpart J. [40 CFR 60.108(d)]

382 Begin conducting daily performance tests as specified under 40 CFR 60.108(d) immediately upon electing to become subject to one of the provisions of 40 CFR 60.104(b), if initially demonstrating compliance with one of the provisions of 40 CFR 60.104(b) but at a later date seeks to comply with another of the provisions of 40 CFR 60.104(b). Furnish DEQ with a written notification of the change in the semiannual report required by 40 CFR 60.107(e), per schedule. Subpart J. [40 CFR 60.108(e)]

3(I)(64 - Purge Treatment Unit Cap

383 VOC, Total recordkeeping by electronic or hard copy monthly Keep records of the total calculated VOC emissions based on the overall throughput each month, as well as the total calculated VOC emissions based on the overall throughput for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

384 VOC, Total monitored by calculations monthly. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

385 VOC, Total Submit report: Due annually, by the 31st of March. Report the total calculated VOC emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

386 VOC, Total: To demonstrate compliance with the VOC emission limit for the source GRP 112.3(IX)64 Purge Treatment Unit Cap, Permittee shall calculate total VOC tons for a 12-month rolling period. Total VOC for the Purge Treatment in the cap shall not exceed 1.98 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. VOC emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: Polymer Tank, T-822, Clarifier Overflow Tank, T-823, Wash Water Tank, T-824, Polymer Mixing Tank, T-825, Filtrate Sump, Scrubber Makeup Tank, F-321, Flocculation Tank, T-820A, Flocculation Tank, T-820B, Clarifier, L800A, and Clarifier, L800B. [LAC 33:III.501.C.6]

GRP113 3(I)(65 - Cooling Tower Cap

387 VOC, Total monitored by calculations monthly. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

388 VOC, Total recordkeeping by electronic or hard copy monthly Keep records of the total calculated VOC emissions based on the overall throughput each month, as well as the total calculated VOC emissions based on the overall throughput for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

389 VOC, Total Submit report: Due annually, by the 31st of March. Report the total calculated VOC emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 1250 - Citgo Petroleum Corp - Lake Charles Manufacturing Complex
Activity Number: PER20050022

Permit Number: 2908-V1

Air - Title V Regular Permit Minor Mod

GRP113 3(IX)65 - Cooling Tower Cap

390 To demonstrate compliance with the VOC emission limit for the source GRP 113 3(IX)65 Cooling Tower Cap, Permittee shall calculate total VOC tons for a 12-month rolling period. Total VOC for the Cooling Towers in the cap shall not exceed 0.88 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. VOC emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: Cooling Tower, CT-817A, Cooling Tower and CT-817B. [LAC 33:III.501.C.6]

391 Particulate matter (10 microns or less) recordkeeping by electronic or hard copy monthly. Report the total calculated PM10 emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

392 Particulate matter (10 microns or less) Submit report: Due annually, by the 31st of March. Report the total calculated PM10 emissions based on throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

393 To demonstrate compliance with the PM10 emission limit for the source GRP 113 3(II)65 Cooling Tower Cap, Permittee shall calculate total PM10 tons for a 12-month rolling period. Total PM10 for the Cooling Towers in the cap shall not exceed 0.09 tons per year. Permittee shall retain records for review by the Office of Environmental Compliance, Surveillance Division. PM10 emissions above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Emission points: Cooling Tower, CT-817-A and Cooling Tower, CT-817B. [LAC 33:III.501.C.6]

394 Particulate matter (10 microns or less) monitored by calculations monthly. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

395 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with the LA MACT Determination for Petroleum Refineries. Controls are not required if the true vapor pressure of tank contents is less than 1.5 psia. STATE ONLY. [LAC 33:III.5109.A]

APPENDIX A
PART 70 SPECIFIC CONDITION
STREAMLINED FUGITIVES PROGRAM

CAT AREA
AGENCY INTEREST 1250
CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

Permittee shall comply with all applicable requirements listed in the attached tables. Failure to comply with any of the federal applicable requirements or compliance monitoring devices, activities, or methods listed in Tables 2, 3, and 4 will represent a violation of this permit.

- a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (HON) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
- b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
- c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on September 30 and March 31, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

Unit or Plant Site	Programs Being Consolidated	Stream Applicability	Overall Most Significant Program
FCCU Unit	LAC 33:III.2122, LA Fugitive Emission Control LAC 33:III.Chapter 51, LA MACT for Refineries 40 CFR 63, Subpart CC, NESHAP Petroleum Refineries	≥ 10% VOC ≥ 5% VOTAP (Class I and II) ≥ 5% Organic HAP	LA MACT for Refineries
BLCOH	LAC 33:III.2122, LA Fugitive Emission Control LAC 33:III.Chapter 51, LA MACT for Refineries 40 CFR 63, Subpart CC, NESHAP Petroleum Refineries	≥ 10% VOC ≥ 5% VOTAP (Class I and II) ≥ 5% Organic HAP	LA MACT for Refineries
C-4 Recovery Unit	LAC 33:III.2122, LA Fugitive Emission Control LAC 33:III.Chapter 51, LA MACT for Refineries 40 CFR 60 Subpart GGG, NSPS Petroleum	≥ 10% VOC ≥ 5% VOTAP (Class I and II)	LA MACT for Refineries

APPENDIX A
PART 70 SPECIFIC CONDITION
STREAMLINED FUGITIVES PROGRAM

CAT AREA
AGENCY INTEREST 1250
CITGO PETROLEUM CORPORATION
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

Unit or Plant Site	Programs Being Consolidated	Stream Applicability	Overall Most Significant Program
	Refineries Equipment Leaks 40 CFR 63, Subpart CC, NESHAP Petroleum Refineries	≥ 10% VOC ≥ 5% Organic HAP	
PFU	LAC 33:III.2122, LA Fugitive Emission Control 40 CFR 60 Subpart GGG, NSPS Petroleum Refineries Equipment Leaks	≥ 10% VOC ≥ 10% VOC	LAC 33:III.2122
FGPU/LERU	LAC 33:III.2122, LA Fugitive Emission Control	≥ 10% VOC	LAC 33:III.2122
CFH Unit	LAC 33:III.2122, LA Fugitive Emission Control LAC 33:III.Chapter 51, LA MACT for Refineries 40 CFR 63, Subpart CC, NESHAP Petroleum Refineries	≥ 10% VOC ≥ 5% VOTAP (Class I and II) ≥ 5% Organic HAP	LA MACT for Refineries
Cat Gasoline Hydrotreater Units	Louisiana MACT Determination for Refineries	≥ 5% VOTAP	LA MACT for Refineries
	40 CFR 63 Subpart CC – Refinery MACT NSPS Option	≥ 5% VOHAP	
	40 CFR 60 Subpart GGG, NSPS SOCMF Equipment Leaks	≥ 10% VOC	
	LAC 33:III.2122 – Louisiana Fugitive Emission Control	≥ 10% VOC	